TRAINING REGULATIONS

CARPENTRY NC II



CONSTRUCTION SECTOR (CIVIL WORKS)

TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY East Service Road, South Luzon Expressway (SLEX), Taguig City, Metro Manila

Technical Education and Skills Development Act of 1994 (Republic Act No. 7796)

Section 22, "Establishment and Administration of the National Trade Skills Standards" of the RA 7796 known as the TESDA Act mandates TESDA to establish national occupational skill standards. The Authority shall develop and implement a certification and accreditation program in which private industry group and trade associations are accredited to conduct approved trade tests, and the local government units to promote such trade testing activities in their respective areas in accordance with the guidelines to be set by the Authority.

The Training Regulations (TR) serves as basis for:

- 1. Development of curriculum and assessment tools
- 2. Registration and delivery of training programs; and
- 3. Establishment of competency assessment and certification arrangements.

Each TR has four sections:

- Section 1 **Definition of Qualification** describes the qualification and defines the competencies that comprise the qualification.
- Section 2 The Competency Standards format was revised to include the Required Knowledge and Required Skills per element. These fields explicitly state the required knowledge and skills for competent performance of a unit of competency in an informed and effective manner. These also emphasize the application of knowledge and skills to situations where understanding is converted into a workplace outcome.
- Section 3 **Training Arrangements** contain the information and requirements which serve as bases for training providers in designing and delivering competency-based curriculum for the qualification. The revisions to Section 3 entail identifying the Learning Activities leading to achievement of the identified Learning Outcome.
- Section 4 Assessment and Certification Arrangements describe the policies governing assessment and certification procedures for the qualification.

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TRAINING REGULATIONS FOR

CARPENTRY NC II

SECTION 1 CARPENTRY NC II

The **CARPENTRY NC II** Qualification consists of competencies on rough and finishing carpentry that a person must achieve in fabrication and installation of wooden materials and basic roof assembly.

This Qualification is packaged from the competency map of Construction – Civil Works sub-sector as shown in Annex A.

The units of competency comprising this qualification include the following:

CODE NO.	BASIC COMPETENCIES		
400311210	Participate in workplace communication		
400311211	Work in a team environment		
400311212	Solve/address general workplace problems		
400311213	Develop career and life decisions		
400311214	Contribute to workplace innovation		
400311215	Present relevant information		
400311216	Practice occupational safety and health policies and procedures		
400311217	Exercise efficient and effective sustainable practices in the workplace		
400311218	Practice entrepreneurial skills in the workplace		
CODE NO.	COMMON COMPETENCIES		
CON931201	Prepare construction materials and tools		
CON311201	Observe procedures, specifications and manuals of instruction		
CON311203	Perform mensurations and calculations		
CON311204	Maintain tools and equipment		
CODE NO.	CORE COMPETENCIES		
CON711301	Layout reference lines		
CON711302	Fabricate, install and remove wooden formworks		
CON711303	Install wooden door jamb, window frame and panels		
CON711304	Install ceiling and wall frames and panels		
CON711305	Fabricate and install wooden stairs		
CON711306	Install wooden floor supports and panels		
CON711307	Fabricate and install roofing system		
CON711308	Fabricate and install wooden cabinet		

A person who has achieved this Qualification is competent to be a -

Rough and Finishing Carpenter

SECTION 2 COMPETENCY STANDARDS

This section gives the details and contents of the units of competency required in **CARPENTRY NC II.** These units of competency are categorized into basic, common and core competencies.

BASIC COMPETENCIES

UNIT OF COMPETENCY: PARTICIPATE IN WORKPLACE COMMUNICATION

UNIT CODE : 400311210

UNIT DESCRIPTOR: This unit covers the knowledge, skills and attitudes

required to gather, interpret and convey information

in response to workplace requirements.

	DEDECORMANCE		
ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Obtain and convey workplace information	1.1 Specific and relevant information is accessed from appropriate sources 1.2 Effective questioning, active listening and speaking skills are used to gather and convey information 1.3 Appropriate medium is used to transfer information and ideas 1.4 Appropriate nonverbal communication is used 1.5 Appropriate lines of communication with supervisors and colleagues are identified and followed	1.1 Effective verbal and nonverbal communication 1.2 Different modes of communication 1.3 Medium of communication in the workplace 1.4 Organizational policies 1.5 Communication procedures and systems 1.6 Lines of Communication 1.7 Technology relevant to the enterprise and the individual's work responsibilities 1.8 Workplace etiquette	 1.1 Following simple spoken language 1.2 Performing routine workplace duties following simple written notices 1.3 Participating in workplace meetings and discussions 1.4 Preparing workrelated documents 1.5 Estimating, calculating and recording routine workplace measures 1.6 Relating/ Interacting with people of various levels in the workplace 1.7 Gathering and providing basic information in response to workplace requirements 1.8 Basic business writing skills

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Perform	1.6 Defined workplace procedures for the location and storage of information are used 1.7 Personal interaction is carried out clearly and concisely 2.1 Written notices	2.1 Effective verbal	1.9 Interpersonal skills in the workplace 1.10 Active-listening skills 2.1 Following simple
duties following workplace instructions	and instructions are read and interpreted in accordance with organizational guidelines 2.2 Routine written instruction are followed based on established procedures	and non-verbal communication 2.2 Different modes of communication 2.3 Medium of communication in the workplace 2.4 Organizational/ Workplace policies 2.5 Communication	spoken instructions 2.2 Performing routine workplace duties following simple written notices 2.3 Participating in workplace meetings and discussions 2.4 Completing work- related documents 2.5 Estimating,
	2.3 Feedback is given to workplace supervisor based instructions/ information received 2.4 Workplace interactions are	procedures and systems 2.6 Lines of communication 2.7 Technology relevant to the enterprise and the individual's work	calculating and recording routine workplace measures 2.6 Relating/ Responding to people of various levels in the
	conducted in a courteous manner 2.5 Where necessary, clarifications about routine workplace procedures and matters concerning conditions of employment are sought and asked from appropriate sources 2.6 Meetings outcomes are interpreted and implemented	responsibilities 2.8 Effective questioning techniques (clarifying and probing) 2.9 Workplace etiquette	workplace 2.7 Gathering and providing information in response to workplace requirements 2.8 Basic questioning/querying 2.9 Skills in reading for information 2.10 Skills in locating

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Complete relevant work-related documents	3.1 Range of <i>forms</i> relating to conditions of employment are completed accurately and legibly 3.2 Workplace data is recorded on standard workplace forms and documents 3.3 Errors in recording information on forms/ documents are identified and acted upon 3.4 Reporting requirements to supervisor are completed according to organizational guidelines	3.1 Effective verbal and non-verbal communication 3.2 Different modes of communication 3.3 Workplace forms and documents 3.4 Organizational/ Workplace policies 3.5 Communication procedures and systems 3.6 Technology relevant to the enterprise and the individual's work responsibilities	 3.1 Completing work-related documents 3.2 Applying operations of addition, subtraction, division and multiplication 3.3 Gathering and providing information in response to workplace requirements 3.4 Effective record keeping skills

VARIABLES	RANGE	
1. Appropriate	May include:	
sources	1.1. Team members	
	1.2. Supervisor/Department Head	
	1.3. Suppliers	
	1.4. Trade personnel	
	1.5. Local government	
	1.6. Industry bodies	
2. Medium	May include:	
	2.1. Memorandum	
	2.2. Circular	
	2.3. Notice	
	2.4. Information dissemination	
	2.5. Follow-up or verbal instructions	
	2.6. Face-to-face communication	
	2.7. Electronic media (disk files, cyberspace)	
3. Storage	May include:	
	3.1. Manual filing system	
	3.2. Computer-based filing system	
4. Workplace	May include:	
interactions	4.1. Face-to-face	
	4.2. Telephone	
	4.3. Electronic and two-way radio	
	4.4. Written including electronic means, memos,	
	instruction and forms	
	4.5. Non-verbal including gestures, signals, signs	
	and diagrams	
5. Forms	May include:	
	5.1. HR/Personnel forms, telephone message	
	forms, safety reports	

EVIDENCE GUIDE

1.	Critical aspects of Competency	 Assessment requires evidence that the candidate: 1.1. Prepared written communication following standard format of the organization 1.2. Accessed information using workplace communication equipment/systems 1.3. Made use of relevant terms as an aid to transfer information effectively 1.4. Conveyed information effectively adopting formal or informal communication
2.	Resource Implications	The following resources should be provided: 2.1. Fax machine 2.2. Telephone 2.3. Notebook 2.4. Writing materials 2.5. Computer with Internet connection
3.	Methods of Assessment	Competency in this unit may be assessed through: 3.1. Demonstration with oral questioning 3.2. Interview 3.3. Written test 3.4. Third-party report
4.	Context for Assessment	4.1. Competency may be assessed individually in the actual workplace or through an accredited institution

UNIT OF COMPETENCY: WORK IN A TEAM ENVIRONMENT

UNIT CODE : 400311211

UNIT DESCRIPTOR: This unit covers the skills, knowledge and attitudes to

identify one's roles and responsibilities as a member of a

team.

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Describe team role and scope	 1.1 The <i>role and objective</i> of the team is identified from available sources of information 1.2 Team parameters, reporting relationships and responsibilities are identified from team discussions and appropriate external sources 	1.1 Group structure 1.2 Group development 1.3 Sources of information	1.1 Communicating with others, appropriately consistent with the culture of the workplace 1.2 Developing ways in improving work structure and performing respective roles in the group or organization
Identify one's role and responsibility within a team	 2.1 Individual roles and responsibilities within the team environment are identified 2.2 Roles and objectives of the team is identified from available sources of information 2.3 Team parameters, reporting relationships and responsibilities are identified based on team discussions and appropriate external sources 	 2.1 Team roles and objectives 2.2 Team structure and parameters 2.3 Team development 2.4 Sources of information 	2.1 Communicating with others, appropriately consistent with the culture of the workplace 2.2 Developing ways in improving work structure and performing respective roles in the group or organization

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Work as a team member	 3.1 Effective and appropriate forms of communications are used and interactions undertaken with team members based on company practices. 3.2 Effective and appropriate contributions made to complement team activities and objectives, based on workplace context 3.3 Protocols in reporting are observed based on standard company practices. 3.4 Contribute to the development of team work plans based on an understanding of team's role and objectives 	3.1 Communication Process 3.2 Workplace communication protocol 3.3 Team planning and decision making 3.4 Team thinking 3.5 Team roles 3.6 Process of team development 3.7 Workplace context	 3.1 Communicating appropriately, consistent with the culture of the workplace 3.2 Interacting effectively with others 3.3 Deciding as an individual and as a group using group think strategies and techniques 3.4 Contributing to Resolution of issues and concerns

VARIABLE	RANGE
1. Role and objective	May include:
of team	1.1. Work activities in a team environment with
	enterprise or specific sector
	1.2. Limited discretion, initiative and judgement
	maybe demonstrated on the job, either
	individually or in a team environment
2. Sources of	May include:
information	2.1. Standard operating and/or other workplace
	procedures
	2.2. Job procedures
	2.3. Machine/equipment manufacturer's
	specifications and instructions
	2.4. Organizational or external personnel
	2.5. Client/supplier instructions
	2.6. Quality standards
	2.7. OHS and environmental standards
3. Workplace context	May include:
	3.1. Work procedures and practices
	3.2. Conditions of work environments
	3.3. Legislation and industrial agreements
	3.4. Standard work practice including the storage,
	safe handling and disposal of chemicals
	3.5. Safety, environmental, housekeeping and quality guidelines

EVIDENCE GUIDE

at the candidate:
workplace activity
workplace activity
1 (
n or oral form
workplace language
n for the job
e provided:
lace or appropriately
assessment can take
sed activity or tasks
ssessed through:
rticipation of individual
rganizational goal
a basis for discussion
amwork
methods
ed in workplace or in a
•
d while task are being
y or in group

UNIT OF COMPETENCY: SOLVE/ADDRESS GENERAL WORKPLACE

PROBLEMS

UNIT CODE : 400311212

UNIT DESCRIPTOR: This unit covers the knowledge, skills and attitudes

required to apply problem-solving techniques to determine the origin of problems and plan for their resolution. It also includes addressing procedural

problems through documentation, and referral.

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Identify routine problems	 1.1 Routine problems or procedural problem areas are identified 1.2 Problems to be investigated are defined and determined 1.3 Current conditions of the problem are identified and documented 	1.1 Current industry hardware and software products and services 1.2 Industry maintenance, service and helpdesk practices, processes and procedures 1.3 Industry standard diagnostic tools 1.4 Malfunctions and resolutions	1.1 Identifying current industry hardware and software products and services 1.2 Identifying current industry maintenance, services and helpdesk practices, processes and procedures. 1.3 Identifying current industry standard diagnostic tools 1.4 Describing common malfunctions and resolutions. 1.5 Determining the root cause of a routine malfunction

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Look for solutions to routine problems	2.1 Potential solutions to problem are identified 2.2 Recommendations about possible solutions are developed, documented, ranked and presented to appropriate person for decision	2.1 Current industry hardware and software products and services 2.2 Industry service and helpdesk practices, processes and procedures 2.3 Operating systems 2.4 Industry standard diagnostic tools 2.5 Malfunctions and resolutions. 2.6 Root cause analysis	2.1 Identifying current industry hardware and software products and services 2.2 Identifying services and helpdesk practices, processes and procedures. 2.3 Identifying operating system 2.4 Identifying current industry standard diagnostic tools 2.5 Describing common malfunctions and resolutions. 2.6 Determining the root cause of a routine malfunction
3. Recommend solutions to problems	 3.1 Implementation of solutions are planned 3.2 Evaluation of implemented solutions are planned 3.3 Recommended solutions are documented and submit to appropriate person for confirmation 	3.1 Standard procedures 3.2 Documentation produce	3.1 Producing documentation that recommends solutions to problems 3.2 Following established procedures

	VARIABLE	RANGE
1.	Problems/Procedural Problem	May include: 1.1 Routine/non – routine processes and quality problems 1.2 Equipment selection, availability and failure 1.3 Teamwork and work allocation problem 1.4 Safety and emergency situations and incidents 1.5 Work-related problems outside of own work area
2.	Appropriate person	May include: 2.1 Supervisor or manager 2.2 Peers/work colleagues 2.3 Other members of the organization
3.	Document	May include: 3.1 Electronic mail 3.2 Briefing notes 3.3 Written report 3.4 Evaluation report
4.	Plan	May include: 4.1 Priority requirements 4.2 Co-ordination and feedback requirements 4.3 Safety requirements 4.4 Risk assessment 4.5 Environmental requirements

EVIDENCE GUIDE

1.	Critical aspects of Competency	 Assessment requires evidence that the candidate: 1.1 Determined the root cause of a routine problem 1.2 Identified solutions to procedural problems. 1.3 Produced documentation that recommends solutions to problems. 1.4 Followed established procedures.
		1.5 Referred unresolved problems to support persons.
2.	Resource Implications	2.1. Assessment will require access to a workplace over an extended period, or a suitable method of gathering evidence of operating ability over a range of situations.
3.	Methods of Assessment	Competency in this unit may be assessed through: 3.1 Case Formulation 3.2 Life Narrative Inquiry 3.3 Standardized test The unit will be assessed in a holistic manner as is practical and may be integrated with the assessment of other relevant units of competency. Assessment will occur over a range of situations, which will include disruptions to normal, smooth operation. Simulation may be required to allow for timely assessment of parts of this unit of competency. Simulation should be based on the actual workplace and will include walk through of the relevant competency components.
4.	Context for Assessment	4.1 Competency may be assessed individually in the actual workplace or simulation environment in TESDA accredited institutions.

UNIT OF COMPETENCY: DEVELOP CAREER AND LIFE DECISIONS

UNIT CODE 400311213

UNIT DESCRIPTOR This unit covers the knowledge, skills, and attitudes

in managing one's emotions, developing reflective boosting self-confidence practice, and

developing self-regulation.

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Manage one's emotion	1.1 Self-management strategies are identified 1.2 Skills to work independently and to show initiative, to be conscientious, and persevering in the face of setbacks and frustrations are developed 1.3 Techniques for effectively handling negative emotions and unpleasant situation in the workplace are examined	1.1 Self- management strategies that assist in regulating behavior and achieving personal and learning goals (e.g. Nine self- management strategies according to Robert Kelley) 1.2 Enablers and barriers in achieving personal and career goals 1.3 Techniques in handling negative emotions and unpleasant situation in the workplace such as frustration, anger, worry, anxiety, etc.	1.1 Managing properly one's emotions and recognizing situations that cannot be changed and accept them and remain professional 1.2 Developing self-discipline, working independently and showing initiative to achieve personal and career goals 1.3 Showing confidence, and resilience in the face of setbacks and frustrations and other negative emotions and unpleasant situations in the workplace

	ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2.	Develop reflective practice	2.1 Personal strengths and achievements, based on self-assessment strategies and teacher feedback are contemplated 2.2 Progress when seeking and responding to feedback from teachers to assist them in consolidating strengths, addressing weaknesses and fulfilling their potential are monitored 2.3 Outcomes of personal and academic challenges by reflecting on previous problem solving and decision making strategies and feedback from peers and teachers are predicted	2.1 Basic SWOT analysis 2.2 Strategies to improve one's attitude in the workplace 2.3 Gibbs' Reflective Cycle/Model (Description, Feelings, Evaluation, Analysis, Conclusion, and Action plan)	2.1 Using the basic SWOT analysis as self-assessment strategy 2.2 Developing reflective practice through realization of limitations, likes/dislikes; through showing of self-confidence 2.3 Demonstrating self-acceptance and being able to accept challenges
3.	Boost self- confidence and develop self- regulation	3.1 Efforts for continuous self-improvement are demonstrated 3.2 Counter-productive tendencies at work are eliminated 3.3 Positive outlook in life are maintained.	3.1 Four components of self-regulation based on Self-Regulation Theory (SRT) 3.2 Personality development concepts 3.3 Self-help concepts (e. g., 7 Habits by Stephen Covey, transactional analysis, psycho-spiritual concepts)	3.1 Performing effective communication skills – reading, writing, conversing skills 3.2 Showing affective skills – flexibility, adaptability, etc. 3.3 Self-assessment for determining one's strengths and weaknesses

VARIABLE	RANGE	
1. Self-	May include:	
management	1.1 Seeking assistance in the form of job coaching or mentoring	
strategies	1.2 Continuing dialogue to tackle workplace grievances	
	1.3 Collective negotiation/bargaining for better working conditions	
	1.4 Share your goals to improve with a trusted co-worker or supervisor	
	1.5 Make a negativity log of every instance when you catch yourself complaining to others	
	1.6 Make lists and schedules for necessary activities	
2. Unpleasant	May include:	
situation	2.1 Job burn-out	
	2.2 Drug dependence	
	2.3 Sulking	

EVIDENCE GUIDE

Critical aspects of Competency	Assessment requires evidence that the candidate: 1.1 Express emotions appropriately 1.2 Work independently and show initiative 1.3 Consistently demonstrate self-confidence and self-discipline
2. Resource Implications	The following resources should be provided: 2.1. Access to workplace and resource s 2.2. Case studies
3. Methods of Assessment	Competency in this unit may be assessed through: 3.1. Demonstration or simulation with oral questioning 3.2. Case problems involving work improvement and sustainability issues 3.3. Third-party report
Context for Assessment	4.1. Competency assessment may occur in workplace or any appropriately simulated environment

UNIT OF COMPETENCY: CONTRIBUTE TO WORKPLACE INNOVATION

UNIT CODE : 400311214

UNIT DESCRIPTOR : This unit covers the knowledge, skills and

Attitudes required to make a pro-active and positive contribution to workplace innovation.

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Identify opportunities to do things better	 1.1 Opportunities for improvement are identified proactively in own area of work. 1.2 Information are gathered and reviewed which may be relevant to ideas and which might assist in gaining support for idea. 	 1.1 Roles of individuals in suggesting and making improvements. 1.2 Positive impacts and challenges in innovation. 1.3 Types of changes and responsibility. 1.4 Seven habits of highly effective people. 	1.1 Identifying opportunities to improve and to do things better. Involvement. 1.2 Identifying the positive impacts and the challenges of change and innovation. 1.3 Identifying examples of the types of changes that are within and outside own scope of responsibility
2. Discuss and develop ideas with others	 2.1 People who could provide input to ideas for improvements are identified. 2.2 Ways of approaching people to begin sharing ideas are selected. 2.3 Meeting is set with relevant people. 2.4 Ideas for follow up are review and selected based on feedback. 2.5 Critical inquiry method is used to discuss and develop ideas with others. 	 2.1 Roles of individuals in suggesting and making improvements. 2.2 Positive impacts and challenges in innovation. 2.3 Types of changes and responsibility. 2.4 Seven habits of highly effective people. 	2.1 Identifying opportunities to improve and to do things better. Involvement. 2.2 Identifying the positive impacts and the challenges of change and innovation. 2.3 Providing examples of the types of changes that are within and outside own scope of responsibility 2.4 Communicating ideas for change through small group discussions and meetings.

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Integrate ideas for change in the workplace	 3.1 Critical inquiry method is used to integrate different ideas for change of key people. 3.2 Summarizing, analyzing and generalizing skills are used to extract salient points in the pool of ideas. 3.3 Reporting skills are likewise used to communicate results. 3.4 Current Issues and concerns on the systems, processes and procedures, as well as the need for simple innovative practices are identified. 	 3.1 Roles of individuals in suggesting and making improvements. 3.2 Positive impacts and challenges in innovation. 3.3 Types of changes and responsibility. 3.4 Seven habits of highly effective people. 3.5 Basic research skills. 	3.1 Identifying opportunities to improve and to do things better. Involvement. 3.2 Identifying the positive impacts and the challenges of change and innovation. 3.3 Providing examples of the types of changes that are within and outside own scope of responsibility. 3.4 Communicating ideas for change through small group discussions and meetings. 3.5 Demonstrating skills in analysis and interpretation of data.

VARIABLES	RANGE
Opportunities for improvement	May include: 1.1 Systems. 1.2 Processes. 1.3 Procedures. 1.4 Protocols. 1.5 Codes. 1.6 Practices.
2. Information	May include: 2.1 Workplace communication problems. 2.2 Performance evaluation results. 2.3 Team dynamics issues and concerns. 2.4 Challenges on return of investment 2.5 New tools, processes and procedures. 2.6 New people in the organization.
3. People who could provide input	May include: 3.1 Leaders. 3.2 Managers. 3.3 Specialists. 3.4 Associates. 3.5 Researchers. 3.6 Supervisors. 3.7 Staff. 3.8 Consultants (external) 3.9 People outside the organization in the same field or similar expertise/industry. 3.10 Clients
4. Critical inquiry method	 May include: 4.1 Preparation. 4.2 Discussion. 4.3 Clarification of goals. 4.4 Negotiate towards a Win-Win outcome. 4.5 Agreement. 4.6 Implementation of a course of action. 4.7 Effective verbal communication. See our pages: Verbal Communication and Effective Speaking. 4.8 Listening. 4.9 Reducing misunderstandings is a key part of effective negotiation. 4.10 Rapport Building. 4.11 Problem Solving. 4.12 Decision Making. 4.13 Assertiveness. 4.14 Dealing with Difficult Situations.

Reporting skills	May include:	
	5.1 Data management.	
	5.2 Coding.	
	5.3 Data analysis and interpretation.	
	5.4 Coherent writing.	
	5.5 Speaking.	

EVIDENCE GUIDE

3	
1. Critical aspects of	Assessment requires evidence that the candidate:
Competency	1.1 Identified opportunities to do things better.
	1.2 Discussed and developed ideas with others on
	how to contribute to workplace innovation.
	1.3 Integrated ideas for change in the workplace.
	1.4 Analyzed and reported rooms for innovation
	and learning in the workplace.
2. Resource	The following resources should be provided:
Implications	2.1 Pens, papers and writing implements.
	2.2 Cartolina.
	2.3 Manila papers.
3. Methods of	Competency in this unit may be assessed through:
Assessment	3.1 Psychological and behavioral Interviews.
	3.2 Performance Evaluation.
	3.3 Life Narrative Inquiry.
	3.4 Review of portfolios of evidence and third-party
	workplace reports of on-the-job performance.
	3.5 Sensitivity analysis.
	3.6 Organizational analysis.
	3.7 Standardized assessment of character
	strengths and virtues applied.
4. Context for	4.1 Competency may be assessed individually in
Assessment	the actual workplace or simulation environment
	in TESDA accredited institutions.

UNIT OF COMPETENCY : PRESENT RELEVANT INFORMATION

UNIT CODE : 400311215

UNIT DESCRIPTOR : This unit of covers the knowledge, skills and

attitudes required to present data/information

appropriately.

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Gather data/ information	1.1 Évidence, facts and information are collected 1.2 Evaluation, terms of reference and conditions are reviewed to determine whether data/information falls within project scope	 1.1 Organisational protocols 1.2 Confidentiality 1.3 Accuracy 1.4 Business mathematics and statistics 1.5 Data analysis techniques/proced ures 1.6 Reporting requirements to a range of audiences 1.7 Legislation, policy and procedures relating to the conduct of evaluations 1.8 Organisational values, ethics and codes of conduct 	 1.1 Describing organisational protocols relating to client liaison 1.2 Protecting confidentiality 1.3 Describing accuracy 1.4 Computing business mathematics and statistics 1.5 Describing data analysis techniques/ procedures 1.6 Reporting requirements to a range of audiences 1.7 Stating legislation, policy and procedures relating to the conduct of evaluations 1.8 Stating organisational values, ethics and codes of conduct
2. Assess gathered data/ information	2.1 Validity of data/ information is assessed 2.2 Analysis techniques are	2.1 Business mathematics and statistics2.2 Data analysis techniques/	2.1 Computing business mathematics and statistics 2.2 Describing data
	applied to assess data/ information. 2.3 Trends and anomalies are identified 2.4 Data analysis	procedures 2.3 Reporting requirements to a range of audiences 2.4 Legislation, policy and procedures	analysis techniques/ procedures 2.3 Reporting requirements to a range of

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
	techniques and procedures are documented 2.5 Recommendation s are made on areas of possible improvement.	relating to the conduct of evaluations 2.5 Organisational values, ethics and codes of conduct	audiences 2.4 Stating legislation, policy and procedures relating to the conduct of evaluations 2.5 Stating organisational values, ethics and codes of conduct
3. Record and present information	3.1 Studied data/information are recorded. 3.2 Recommendation s are analysed for action to ensure they are compatible with the project's scope and terms of reference. 3.3 Interim and final reports are analysed and outcomes are compared to the criteria established at the outset. 3.4 Findings are presented to stakeholders.	 3.1 Data analysis techniques/procedures 3.2 Reporting requirements to a range of audiences 3.3 Legislation, policy and procedures relating to the conduct of evaluations 3.4 Organisational values, ethics and codes of conduct 	 3.1 Describing data analysis techniques/ procedures 3.2 Reporting requirements to a range of audiences 3.3 Stating legislation, policy and procedures relating to the conduct of evaluations 3.4 Stating organisational values, ethics and codes of conduct practices

VARIABLES	RANGE
Data analysis techniques	May include: 1.1. Domain analysis 1.2. Content analysis 1.3. Comparison technique

EVIDENCE GUIDE

Critical aspects of Competency	Assessment requires evidence that the candidate: 1.1 Determine data / information 1.2 Studied and applied gathered data/information 1.3 Recorded and studied studied data/information These aspects may be best assessed using a range of scenarios what ifs as a stimulus with a walk through forming part of the response. These assessment activities should include a range of problems, including new, unusual and improbable situations that may have happened.
2. Resource Implications	Specific resources for assessment 2.1. Evidence of competent performance should be obtained by observing an individual in an information management role within the workplace or operational or simulated environment.
3. Methods of Assessment	Competency in this unit may be assessed through: 3.1. Written Test 3.2. Interview 3.3. Portfolio The unit will be assessed in a holistic manner as is practical and may be integrated with the assessment of other relevant units of competency. Assessment will occur over a range of situations, which will include disruptions to normal, smooth operation. Simulation may be required to allow for timely assessment of parts of this unit of competency. Simulation should be based on the actual workplace and will include walk through of the relevant competency components.
Context for Assessment	4.1. In all workplace, it may be appropriate to assess this unit concurrently with relevant teamwork or operation units.

UNIT OF COMPETENCY: PRACTICE OCCUPATIONAL SAFETY AND

HEALTH POLICIES AND PROCEDURES

UNIT CODE : 400311216

UNIT DESCRIPTOR: This unit covers the knowledge, skills and attitudes

required to identify OSH compliance requirements, prepare OSH requirements for compliance, perform tasks in accordance with relevant OSH policies and

procedures

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Identify OSH compliance requirements	1.1 Relevant OSH requirements, regulations, policies and procedures are identified in accordance with workplace policies and procedures 1.2 OSH activity non- conformities are conveyed to appropriate personnel 1.3 OSH preventive and control requirements are identified in accordance with OSH work policies and procedures	 1.1. OSH preventive and control requirements 1.2. Hierarchy of Controls 1.3. Hazard Prevention and Control 1.4. General OSH principles 1.5. Work standards and procedures 1.6. Safe handling procedures of tools, equipment and materials 1.7. Standard emergency plan and procedures in the workplace 	 1.1. Communication skills 1.2. Interpersonal skills 1.3. Critical thinking skills 1.4. Observation skills

	PERFORMANCE		
	CRITERIA	REQUIRED	REQUIRED
ELEMENTS	Italicized terms are	KNOWLEDGE	SKILLS
LLLIMLIAIO	elaborated in the	MINOWELDOL	ORILLO
2. Prepare OSH requirements for compliance	Range of Variables 2.1 OSH work activity material, tools and equipment requirements are identified in accordance with workplace policies and procedures 2.2. Required OSH materials, tools and equipment are acquired in accordance with workplace policies and procedures 2.3. Required OSH materials, tools and equipment are arranged/ placed in accordance with	2.1. Resources necessary to execute hierarchy of controls 2.2. General OSH principles 2.3. Work standards and procedures 2.4. Safe handling procedures of tools, equipment and materials 2.5. Different OSH control measures	2.1. Communication skills 2.2. Estimation skills 2.3. Interpersonal skills 2.4. Critical thinking skills 2.5. Observation skills 2.6. Material, tool and equipment identification skills
3. Perform tasks in accordance with relevant OSH policies and procedures	OSH work standards 3.1 Relevant OSH work procedures are identified in accordance with workplace policies and procedures 3.2 Work Activities are executed in accordance with OSH work standards 3.3 Non-compliance work activities are reported to appropriate personnel	3.1. OSH work standards 3.2. Industry related work activities 3.3. General OSH principles 3.4. OSH Violations Non-compliance work activities	3.1 Communication skills 3.3 Interpersonal skills 3.4 Troubleshooting skills 3.5 Critical thinking skills 3.6 Observation skills

VARIABLE	RANGE		
1. OSH Requirements,	May include:		
Regulations, Policies	1.1 Clean Air Act		
and Procedures	1.2 Building code		
	1.3 National Electrical and Fire Safety Codes		
	1.4 Waste management statutes and rules		
	1.5 Permit to Operate		
	1.6 Philippine Occupational Safety and Health		
	Standards		
	1.7 Department Order No. 13 (Construction Safety		
	and Health)		
	1.8 ECC regulations		
2. Appropriate Personne			
	2.2 Safety Officer		
	2.3 EHS Offices		
	2.4 Supervisors		
	2.5 Team Leaders		
	2.6 Administrators		
	2.7 Stakeholders		
	2.8 Government Official		
	2.9 Key Personnel		
	2.11 Himself		
3. OSH Preventive and	May include:		
Control Requirements			
•	<u> </u>		
	3.2 Resources needed for substitution or		
	replacement		
	·		
	controls		
	3.5 Personal Protective equipment		
4. Non OSH-Compliance	May include non-compliance or observance of the		
Work Activities	·		
	harm or death		
	4.2 Fall Protection		
	4.3 Hazard Communication		
	4.5 Power Industrial Trucks		
	4.6 Lockout/Tag-out		
OSH Preventive and Control Requirements Non OSH-Compliance	2.1 Manager 2.2 Safety Officer 2.3 EHS Offices 2.4 Supervisors 2.5 Team Leaders 2.6 Administrators 2.7 Stakeholders 2.8 Government Official 2.9 Key Personnel 2.10 Specialists 2.11 Himself May include: 3.1 Resources needed for removing hazard effectively 3.2 Resources needed for substitution or replacement 3.3 Resources needed to establishing engineering controls 3.4 Resources needed for enforcing administrative controls 3.5 Personal Protective equipment May include non-compliance or observance of the following safety measures: 4.1 Violations that may lead to serious physical harm or death 4.2 Fall Protection 4.3 Hazard Communication 4.4 Respiratory Protection 4.5 Power Industrial Trucks 4.6 Lockout/Tag-out 4.7 Working at heights (use of ladder, scaffolding)		

4.10 Electrical General Requirements
4.11 Asbestos work requirements
4.12 Excavations work requirements

EVIDENCE GUIDE

Critical aspects of	Assessment requires evidence that the candidate:
Competency	1.1. Convey OSH work non-conformities to
	appropriate personnel
	1.2. Identify OSH preventive and control
	requirements in accordance with OSH work
	policies and procedures
	1.3. Identify OSH work activity material, tools and
	equipment requirements in accordance with
	workplace policies and procedures
	1.4. Arrange/Place required OSH materials, tools and
	equipment in accordance with OSH work
	standards
	1.5. Execute work activities in accordance with OSH
	work standards
	1.6. Report OSH activity non-compliance work
	activities to appropriate personnel
Resource Implications	The following resources should be provided:
	2.1 Facilities, materials tools and equipment
	necessary for the activity
3. Methods of Assessment	Competency in this unit may be assessed
	through:
	3.1 Observation/Demonstration with oral questioning
	3.2 Third party report
4. Context for Assessment	4.1 Competency may be assessed in the work
	place or in a simulated work place setting

UNIT OF : EXERCISE EFFICIENT AND EFFECTIVE

COMPETENCY SUSTAINABLE PRACTICES IN THE WORKPLACE

UNIT CODE : 400311217

UNITThis unit covers knowledge, skills and attitude to identify the efficiency and effectiveness of resource utilization.

the efficiency and effectiveness of resource utilization, determine causes of inefficiency and/or ineffectiveness of resource utilization and Convey inefficient and ineffective

environmental practices

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Identify the efficiency and effectiveness of resource utilization	1.1 Required resource utilization in the workplace is measured using appropriate techniques 1.2 Data are recorded in accordance with workplace protocol 1.3 Recorded data are compared to determine the efficiency and effectiveness of resource utilization according to established environmental work procedures	1.1. Importance of Environmental Literacy 1.2. Environmental Work Procedures 1.3. Waste Minimization 1.4. Efficient Energy Consumptions	1.1 Recording Skills 1.2 Writing Skills 1.3 Innovation Skills
Determine causes of inefficiency and/or ineffectiveness of resource utilization	2.1 Potential causes of inefficiency and/or ineffectiveness are listed 2.2 Causes of inefficiency and/or ineffectiveness are identified through deductive reasoning 2.3 Identified causes of inefficiency and/or ineffectiveness are validated thru established environmental procedures	2.1 Causes of environmental inefficiencies and ineffectiveness	2.1 Deductive Reasoning Skills 2.2 Critical thinking 2.3 Problem Solving 2.4 Observation Skills

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Convey inefficient and ineffective environmental practices	 3.1 Efficiency and effectiveness of resource utilization are reported to appropriate personnel 3.2 Concerns related resource utilization are discussed with appropriate personnel 3.3 Feedback on information/ concerns raised are clarified with appropriate personnel 	3.1 Appropriate Personnel to address the environmental hazards 3.2 Environmental corrective actions	3.1 Written and Oral Communication Skills 3.2 Critical thinking 3.3 Problem Solving 3.4 Observation Skills 3.5 Practice Environmental Awareness

	VARIABLE		RANGE
1.	Environmental Work	May	include:
	Procedures	1.1	Utilization of Energy, Water, Fuel
			Procedures
			Waster Segregation Procedures
		1	Waste Disposal and Reuse
			Procedures
			Waste Collection Procedures
			Usage of Hazardous Materials
			Procedures
			Chemical Application Procedures
			Labeling Procedures
2.	Appropriate Personnel	_	include:
		2.1	Manager
			Safety Officer
		_	EHS Offices
		1	Supervisors
			Team Leaders
			Administrators
			Stakeholders
			Government Official
		2.9	,
			Specialists
		2.11	Himself

EVIDENCE GUIDE

1.	Critical aspects of	Assessment requires evidence that the candidate:
	Competency	1.1. Measured required resource utilization in the
		workplace using appropriate techniques
		1.2. Recorded data in accordance with workplace protocol
		1.3. Identified causes of inefficiency and/or ineffectiveness through deductive reasoning
		1.4. Validate the identified causes of inefficiency and/or
		ineffectiveness thru established environmental
		procedures
		1.5. Report efficiency and effectives of resource utilization
		to appropriate personnel
		1.6. Clarify feedback on information/concerns raised with
		appropriate personnel
2.	Resource	The following resources should be provided:
	Implications	2.1 Workplace
		2.2 Tools, materials and equipment relevant to the tasks
		2.3 PPE
		2.4 Manuals and references
3.	Methods of	Competency in this unit may be assessed through:
	Assessment	3.1 Demonstration
		3.2 Oral questioning
		3.3 Written examination
4.	Context for	4.1 Competency assessment may occur in workplace or any
	Assessment	appropriately simulated environment
		4.2 Assessment shall be observed while task are being
		undertaken whether individually or in-group

UNIT OF COMPETENCY : PRACTICE ENTREPRENEURIAL SKILLS IN THE

WORKPLACE

UNIT CODE : 400311218

UNIT DESCRIPTOR : This unit covers the outcomes required to apply

entrepreneurial workplace best practices and implement

cost-effective operations

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Apply entrepreneurial workplace best practices	 1.1 Good practices relating to workplace operations are observed and selected following workplace policy. 1.2 Quality procedures and practices are complied with according to workplace requirements. 1.3 Cost-conscious habits in resource utilization are applied based on industry standards. 	 1.1 Workplace best practices, policies and criteria 1.2 Resource utilization 1.3Ways in fostering entrepreneurial attitudes: Patience Honesty Quality-consciousness Safety-consciousness Resourcefulness 	1.1 Communication skills 1.2 Complying with quality procedures
Communicate entrepreneuri al workplace best practices	 2.1 Observed Good practices relating to workplace operations are communicated to appropriate person. 2.2 Observed quality procedures and practices are communicated to appropriate person 2.3 Cost-conscious habits in resource utilization are communicated based on industry standards. 	2.1 Workplace best practices, policies and criteria 2.2 Resource utilization 2.3 Ways in fostering entrepreneurial attitudes: - Patience - Honesty - Quality-consciousness - Safety-consciousness - Resourcefulness	2.1 Communication skills 2.2 Complying with quality procedures 2.3 Following workplace communication protocol

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Implement cost-effective operations	 3.1 Preservation and optimization of workplace resources is implemented in accordance with enterprise policy 3.2 Judicious use of workplace tools, equipment and materials are observed according to manual and work requirements. 3.3 Constructive contributions to office operations are made according to enterprise requirements. 3.4 Ability to work within one's allotted time and finances is sustained. 	3.1 Optimization of workplace resources 3.2 5S procedures and concepts 3.3 Criteria for costeffectiveness 3.4 Workplace productivity 3.5 Impact of entrepreneurial mindset to workplace productivity 3.6 Ways in fostering entrepreneurial attitudes: - Quality-consciousness - Safety-consciousness	3.1 Implementing preservation and optimizing workplace resources 3.2 Observing judicious use of workplace tools, equipment and materials 3.3 Making constructive contributions to office operations 3.4 Sustaining ability to work within allotted time and finances

VARIABLE	RANGE
1.Good practices	May include: 1.1 Economy in use of resources 1.2 Documentation of quality practices
2.Resources utilization	May include: 2.1 Consumption/ use of consumables 2.2 Use/Maintenance of assigned equipment and furniture 2.3 Optimum use of allotted /available time

Critical aspects of competency	Assessment requires evidence that the candidate: 1.1 Demonstrated ability to identify and sustain cost- effective activities in the workplace 1.2 Demonstrated ability to practice entrepreneurial knowledge, skills and attitudes in the workplace.
2. Resource Implications	The following resources should be provided: 2.1 Simulated or actual workplace 2.2 Tools, materials and supplies needed to demonstrate the required tasks 2.3 References and manuals 2.3.1 Enterprise procedures manuals 2.3.2 Company quality policy
3. Methods of Assessment	Competency in this unit should be assessed through: 3.1 Interview 3.2 Third-party report
4.Context of Assessment	4.1 Competency may be assessed in workplace or in a simulated workplace setting4.2 Assessment shall be observed while tasks are being undertaken whether individually or in-group

COMMON COMPETENCIES

UNIT OF COMPETENCY : PREPARE CONSTRUCTION MATERIALS

AND TOOLS

UNIT CODE : CON931201

UNIT DESCRIPTOR : This unit covers the knowledge, skills and

attitudes on identifying, requesting and receiving

construction materials and tools in various

workplace settings.

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variable	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Identify materials	1.1 Materials are identified as per job requirements 1.2 Quantity and description of materials and tools conform with the job requirements 1.3 Tools and accessories are identified according to job requirements	1.2 Types and uses of Carpentry tools and accessories	1.1 Identifying tools and accessories according to the job requirements
Prepare requisition of materials	2.1 Materials and tools needed are requested according to the identified requirements 2.2 Request is done as per company standard operating procedures (SOP) 2.3 Substitute materials and tools are provided without sacrificing cost and quality of work	2.1 Work requirements 2.2 Types and uses of Carpentry tools and accessories 2.3 Material take-off 2.4 Requisition procedures	2.1 Preparing material take-off 2.2 Requesting materials and tools
3. Receive and inspect materials	3.1 Materials and tools issued are inspected as per quantity and specification 3.2 Tools, accessories and materials are checked 3.3 Materials and tools are set aside to appropriate location	3.1 Policy on receiving material deliveries 3.2 Material and tools quality and defects 3.3 Material handling	3.1 Checking and inspecting materials and tools 3.2 Storing/ stacking of tool and materials

VARIABLE	RANGE	
Description of materials	May include:	
and tools	1.1 Brand name	
	1.2 Size	
	1.3 Capacity	
	1.4 Kind of application	
2. Tools and accessories	May include:	
	2.1 Electrical supplies	
	2.2 Mechanical supplies	
	2.3 Cleaning supplies	
3. Company standard	May include:	
operating procedures	3.1 Job order	
	3.2 Requisition slip	
	3.3 Borrower slip	

1. Critical aspects of	Assessment requires evidence that the candidate:
Competency	1.1 Listed materials and tools according to quantity and job requirements
	1.2 Requested materials and tools according to the list prepared and as per company SOP
	1.3 Inspected issued materials and tools as per quantity and job specifications
	1.4 Provided tools with safety devices
2. Resource Implications	The following resources should be provided:
	2.1 Workplace location
	2.2 Materials relevant to the unit of competency
	2.3 Plans, drawings and specifications relevant to the activities
3. Methods of Assessment	Competency in this unit may be assessed through:
	3.1 Direct observation/Demonstration with oral questioning
4. Context of Assessment	4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : OBSERVE PROCEDURES, SPECIFICATIONS

AND MANUALS OF INSTRUCTIONS

UNIT CODE : CON311201

UNIT DESCRIPTOR : This unit covers the knowledge, skills and

attitudes On identifying, interpreting, applying services to specifications and manuals and

storing manuals.

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Identify and access specification/ manuals	 1.1 Appropriate manuals are identified and accessed as per job requirements 1.2 Version and date of manual are checked to ensure that correct specification and procedures are identified 	1.1 Types of manuals used in carpentry 1.2 Identification of symbols used in the manuals	1.1 Identifying manuals and specifications 1.2 Accessing information and data
2. Interpret manuals	2.1 Relevant sections, chapters of specifications/ manuals are located in relation to the work to be conducted 2.2 Information and procedure in the manual are interpreted in accordance with industry practices	2.1 Types of manuals used in carpentry 2.2 Types of symbols used in manuals 2.3 System of measurements 2.4 Unit conversion	2.1 Interpreting symbols and specifications 2.2 Accessing information and data 2.3 Applying conversion of units of measurements

ELEMENT	PERFORMANCE CRITERIA Italicized terms are	REQUIRED KNOWLEDGE	REQUIRED SKILLS
	elaborated in the Range of Variables		
Apply information in manual	3.1 <i>Manual</i> is interpreted according to job requirements 3.2 Work steps are correctly identified in accordance with manufacturer's specification 3.3 Manual data are applied according to the given task 3.4 All correct sequencing and adjustments are interpreted in accordance with information contained on the manual or specifications	3.1 Types of manuals used in carpentry 3.2 Types and application of symbols in manuals 3.3 Unit conversion	3.1 Applying information from manuals
4. Store manuals	4.1 Manual or specification is stored appropriately to prevent damage, ready access and updating of information when required in accordance with company requirements	4.1 Types of manuals used in carpentry 4.2 Manual storing and maintaining procedures	1.1 Storing and maintaining manuals

VARIABLE	RANGE	
1. Manual	May include:	
	1.1 Manufacturer's Specification Manual	
	1.2 Maintenance Procedure Manual	
	1.3 Periodic Maintenance Manual	

Critical aspects of competency	 Assessment requires that the candidate: 1.1 Identified and accessed specification/manuals as per job requirements 1.2 Interpreted manuals in accordance with industry practices 1.3 Applied information in manuals according to the given task 1.4 Stored manuals in accordance with company requirements
2. Resource implications	The following resources should be provided: 2.1 All manuals/catalogues relative to construction sector
3. Methods of assessment	Competency in this unit may be assessed through: 3.1 Direct observation/Demonstration with Oral Questioning
4. Context of assessment	4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY: PERFORM MENSURATIONS AND CALCULATIONS

UNIT CODE : CON311203

UNIT DESCRIPTOR : This unit covers the knowledge, skills and

attitudes on identifying and measuring objects based on the required performance standards.

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variable	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Select measuring instruments	 1.1 Object or component to be measured is identified, classified and interpreted according to the appropriate regular <i>geometric shape</i> 1.2 Measuring tools are selected/identified as per object to be measured or job requirements 1.3 Correct specifications are obtained from relevant sources 1.4 Measuring instruments are selected according to job requirements 1.5 Alternative measuring tools are used without sacrificing cost and quality of work 	1.1 Types of measuring tools and its uses	1.1 Selecting measuring instruments

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variable	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Carry out measurements and calculations	2.1 Measurements are obtained according to job requirements 2.2 Alternative measuring tools are used without sacrificing cost and quality of work 2.3 Calculations needed to complete work tasks are performed using the four basic process of addition (+), subtraction (-), multiplication (x) and division (/) 2.4 Calculations involving fractions, percentages and mixed numbers are used to complete workplace tasks 2.5 Numerical computation is self-checked and corrected for accuracy 2.6 Instruments are read to the limit of accuracy of the tool 2.7 Systems of measurement identified and converted according to job requirements/ISO 2.8 Workpieces are measured according to job requirements	2.1 Linear measurement 2.2 Geometrical measurement 2.3 Unit conversion 2.4 Ratio and proportion 2.5 Area	2.1 Interpreting formulas for volume, areas, perimeters of plane and geometric figures 2.2 Handling of measuring instruments

VARIABLE	RANGE
1. Geometric shape	May include:
	1.1 Round
	1.2 Square
	1.3 Rectangular
	1.4 Triangle
	1.5 Sphere
	1.6 Conical
2. Measuring	May include:
instruments	2.1 Micrometer (In-out, depth)
	2.2 Vernier caliper (out, inside)
	2.3 Thickness gauge
	2.4 Torque gauge
	2.5 Small hole gauge
	2.6 Try-square
	2.7 Protractor
	2.8 Steel ruler
	2.9 Voltmeter
	2.10 Ammeter
	2.11 Gauges
	2.12 Thermometers
3. Measurements and	May include:
calculations	3.1 Linear
	3.2 Volume
	3.3 Area
	3.4 Wattage
	3.5 Voltage
	3.6 Amperage
	3.7 Inside diameter
	3.8 Length
	3.9 Thickness
	3.10 Outside diameter
	3.11 Density

Critical aspects of competency	Assessment requires that the candidate: 5.1 Selected and prepared appropriate measuring instruments in accordance with job requirements 5.2 Performed measurements and calculations according to job requirements/ ISO
2. Resource implications	The following resources should be provided: 2.1 Workplace location 2.2 Problems to solve 2.3 Measuring instrument appropriate to carry out tasks 2.4 Instructional materials relevant to the propose activity
3. Methods of assessment	Competency in this unit may be assessed through: 3.1 Direct observation/Demonstration with Oral Questioning
4. Context of assessment	4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : MAINTAIN TOOLS AND EQUIPMENT

UNIT CODE : CON311204

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes on

checking condition, performing preventive maintenance and storing of construction painting tools and equipment.

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Check condition of tools and equipment	 1.1 Materials, tools and equipment are identified according to classification and job requirements 1.2 Non-functional tools and equipment are segregated and labeled according to classification 1.3 Safety of tools and equipment are observed in accordance with manufacturer's instructions 1.4 Condition of Personal Protective Equipment (PPE) are checked in accordance with manufacturer's instructions 	1.1 Use of PPE 1.2 Handling of tools and equipment 1.3 Good housekeeping 1.4 Types and uses of lubricants 1.5 Types and uses of cleaning materials	 1.1 Maintaining tools and equipment 1.2 Handling of tools and equipment 1.3 Identifying tools and equipment defects

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Perform basic preventive maintenance	2.1 Appropriate lubricants are identified according to types of equipment 2.2 Tools and equipment are lubricated according to preventive maintenance schedule or manufacturer's specifications 2.3 Measuring instruments are checked and calibrated in accordance with manufacturer's instructions 2.4 Tools are cleaned and lubricated according to standard procedures 2.5 Defective instruments, equipment and accessories are inspected and replaced according to manufacturer's specifications 2.6 Tools are inspected, repaired and replaced after use 2.7 Work place is cleaned and kept in safe state in line with Occupational Safety and Health (OSHS)	2.1 Use of PPE 2.2 Handling of tools and equipment 2.3 Good housekeeping 2.4 Types and uses of lubricants 2.5 Types and uses of cleaning materials 2.6 Methods and techniques 2.7 Procedures	2.1 Handling of tools and equipment 2.2 Performing preventive maintenance

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Store tools and equipment	Inventory of tools, instruments and equipment are conducted and recorded as per company practices Tools and equipment are stored safely in appropriate locations in accordance with manufacturer's specifications or company procedures	3.1 Use of PPE 3.2 Handling of tools and equipment 3.3 Storing procedures and techniques 3.4 Storage conditions/ locations	3.1 Storing tools and equipment 3.2 Handling of tools and equipment

VARIABLE	RANGE	
1. Materials	May include:	
	1.1 Lubricants	
	1.2 Cleaning materials	
	1.3 Rust remover	
	1.4 Rugs	
	1.5 Spare parts	
2. Tools and equipment	May include:	
	2.1 Tools	
	Cutting tools - hacksaw, crosscut saw	
	Boring tools - brace, hand drill	
	Holding tools - vise grip, C-clamp, bench vise	
	Threading tools - die and stock, taps	
	2.2 Measuring instruments/equipment	
3. Personal Protective	May include:	
Equipment (PPE)	3.1 Goggles	
	3.2 Gloves	
	3.3 Safety shoes	
	3.4 Hard hat	
	3.5 Reflectorized Vest	

1. Critical aspects of	Assessment requires that the candidate:
competency	1.1 Selected and used appropriate processes, tools and
	equipment to carry out task
	1.2 Identified functional and non-functional tools and equipment
	1.3 Checked, lubricated and calibrated tools, equipment and
	instruments according to manufacturer's specifications
	1.4 Replaced defective tools, equipment and their accessories
	1.5 Observed and applied safe handling of tools and equipment
	and safety work practices
	1.6 Prepared and submitted inventory report, where applicable
	1.7 Maintained workplace in accordance with OSHA regulations
	1.8 Stored tools and equipment safely in appropriate locations
	and in accordance with company practices
2. Resource implications	The following resources should be provided:
	2.1 Workplace
	2.2 Maintenance schedule
	2.3 Maintenance materials, tools and equipment relevant to the
	proposed activity/task
3. Methods of assessment	Competency in this unit may be assessed through:
	3.1 Direct observation/Demonstration with Oral Questioning
	3.2 Written Examination
4. Context of assessment	4.1 Competency may be assessed in actual workplace or at the
	designated TESDA Accredited Assessment Center.

CORE COMPETENCIES

UNIT OF COMPETENCY : LAY OUT REFERENCE LINES

UNIT CODE : CON711301

UNIT DESCRIPTOR : This unit covers the knowledge, skills and

attitude for establishing reference lines in

preparation for layout.

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Prepare materials and tools	1.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 1.2 List of materials and tools are secured and followed according to job requirements 1.3 Materials and tools are selected, inspected and prepared consistent with job requirements. 1.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 1.5 Required output is completed as specified by the immediate supervisor based on work schedule.	1.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 1.2 Green Building Concept relative to Construction (3R, 5S) 1.3 Safe handling and standard specification of materials and tools 1.4 Signs and symbols 1.5 Company rules and regulations 1.6 Basic surveying 1.7 Factors affecting productivity 1.8 Productivity work measurements 1.9 Ways of improving productivity 1.10 Adherence to work requirements	1.1 Organizing materials to be used 1.2 Handling and use of materials and tools 1.3 Using PPE 1.4 Communicating effectively 1.5 Following company rules and regulations 1.6 Implementing 3R and 5S

	PERFORMANCE		
ELEMENT	CRITERIA Italicized terms are elaborated in the	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Locate the offset line established by the line and grade/ surveyor Output Description: Output Descrip	Range of Variables 2.1 Related sketches and working drawings are followed according to job requirements 2.2 Offset line/ building line is located and verified. 2.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 2.4 Required output is completed as specified by the immediate supervisor based on work	2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 2.2 Signs and symbols 2.3 Company rules and regulations 2.4 Methods and techniques in measurements 2.5 Understanding instructions 2.6 Green Building Concept relative to Construction (5S) 2.7 Basic surveying 2.8 Factors affecting productivity 2.9 Productivity work measurements 2.10 Ways of improving productivity 2.11 Adherence to work requirements	2.1 Applying mensurations 2.2 Applying productive methods and techniques 2.3 Using PPE 2.4 Communicating effectively 2.5 Following company rules and regulations 2.6 Implementing 5S

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Establish the required reference lines	3.1 Initial lines are marked from offset lines in accordance with working drawings. 3.2 Final reference lines are marked, squared and plumbed in accordance with working drawings. 3.3 Subsequent markings are done as required. 3.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 3.5 Required output is completed as specified by the immediate supervisor based on work	3.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 3.2 Signs and symbols 3.3 Company rules and regulations 3.4 Methods and techniques in measurements 3.5 Understanding instructions 3.6 Green Building Concept relative to Construction (3R, 5S) 3.7 Factors affecting productivity 3.8 Productivity work measurements 3.9 Ways of improving productivity 3.10 Adherence to work requirements	3.1 Applying mensuration 3.2 Applying productive methods and techniques 3.3 Using PPE 3.4 Communicating effectively 3.5 Following company rules and regulations 3.6 Following instructions 3.7 Implementing 3R and 5S

VARIABLE	RANGE	
1. Personal Protective	Include:	
Equipment (PPE)	1.1 Hard hat	
	1.2 Safety shoes	
	1.3 Gloves	
	1.4 Proper uniform/clothing	
	1.5 Goggles	
	1.6 Vest	
	1.7 Mask	
2. Materials and tools	May include:	
	2.1 Lumber	
	2.2 Nails	
	2.3 G.I. Wires	
	2.4 Chalk line box	
	2.5 Pen Marker/ Pencil/Chalk stone	
	2.6 Claw hammer	
	2.7 Sledge hammer	
	2.8 Level hose/ level bar	
	2.9 Pull push rule/ steel tape/ laser meter	
	2.10 Nylon string	
	2.11 Plumb bob	
	2.12 Steel square	
	2.13 Carpenter's square	
	2.14 Laser level	
3. Sketches and working	May include:	
drawings	3.1 Exact location	
	3.2 Dimensions	
	3.3 Elevations	
4. Reference lines	May include:	
	4.1 Finished floor lines	
	4.2 Wall lines	
	4.3 Ceiling lines	
F. Ouls a server of the self-tree	4.4 Fascia/Eave lines	
5. Subsequent markings	May include:	
	5.1 Openings	
	5.2 Embedment	

Critical aspects of	Assessment requires evidence that the candidate:
competency	1.1 Prepared materials and tools consistent with job
	requirements
	1.2 Located the offset line established by the line and grade/ surveyor
	1.3 Established the required reference line based on approved tolerances
	1.4 Observed and complied with safety and environmental regulations
	1.5 Communicated with others to ensure effective work operation
	1.6 Observed and complied with the productivity
	requirements.
	1.7 Complied with attitudinal work requirements
2. Resource implications	The following resources should be provided:
	2.1 Actual or simulated workplace
	2.2 Tools, materials and equipment needed to perform the
	required tasks
	2.3 References and manuals
	2.4 PPE
	2.5 First Aid Kit
3. Method of assessment	Competency in this unit may be assessed through:
	3.1 Demonstration/Observation with Oral Questioning
4. Context for assessment	4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : FABRICATE, INSTALL AND REMOVE WOODEN

FORMWORKS

UNIT CODE : CON711302

UNIT DESCRIPTOR: This unit covers the knowledge, skills, and attitudes to

fabricate, install and remove wooden formworks.

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Prepare materials, tools and equipment	1.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 1.2 List of materials, hand tools and equipment are secured and followed according to job requirements 1.3 Materials, tools and equipment are selected, inspected and prepared consistent with job requirements. 1.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 1.5 Required output is completed as specified by the immediate supervisor based on work schedule.	1.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 1.2 Safe handling and standard specification of materials, tools and equipment 1.3 Markings and labels 1.4 Company rules and regulations 1.5 Mensuration 1.6 Green Building Concept relative to Construction (3R, 5S) 1.7 Economic use of material 1.8 Safe and effective use of hand tools 1.9 Factors affecting productivity 1.10 Productivity work measurements 1.11 Ways of improving productivity 1.12 Adherence to work requirements	 4.2 Using PPE 4.3 Communicating effectively 4.4 Following company rules and regulations 4.5 Organizing materials to be used 4.6 Handling and use of materials, tools and equipment 4.7 Applying mensuration 4.8 Implementing 3R and 5S

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Lay-out and cut dimension of form sheating and stiffeners	2.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 2.2 Form sheating and stiffeners are measured and marked according to job specifications. 2.3 Form sheating and stiffeners are laid out and cut according to required dimensions. 2.4 Work area is cleaned according to safety and environmental regulations 2.5 Required output is completed as specified by the immediate supervisor based on work schedule.	 2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 2.2 Safe handling and standard specification of materials, tools and equipment 2.3 Markings and labels 2.4 Company rules and regulations 2.5 Mensuration 2.6 Green Building Concept relative to Construction (3R, 5S) 2.7 Factors affecting productivity 2.8 Productivity work measurements 2.9 Ways of improving productivity 2.10 Adherence to work requirements 	rules and regulations 2.4 Organizing materials to be used 2.5 Handling and use of materials, tools and equipment 2.6 Applying mensuration 2.7 Implementing 3R

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Assemble and erect form panels and components	 3.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 3.2 Sheatings are positioned and fixed to stiffeners 3.3 Assembled form panels are checked for squareness, levelness, plumbness and alignment. 3.4 Primary and secondary supports are positioned and fixed to hold assembled form panels as per drawings. 3.5 Assembled form panels are checked for compliance with job requirements. 3.6 Work area is cleaned according to safety and environmental regulations 3.7 Required output is completed as specified by the immediate supervisor based on work schedule. 	 3.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 3.2 Safe handling and standard specification of materials, tools and equipment 3.3 Markings and labels 3.4 Company rules and regulations 3.5 Mensuration 3.6 Green Building Concept relative to Construction (3R, 5S) 3.7 Assembly and erection procedures 3.8 Factors affecting productivity 3.9 Productivity work measurements 3.10 Ways of improving productivity 	3.1 Using PPE 3.2 Communicating effectively 3.3 Following company rules and regulations 3.4 Organizing materials to be used 3.5 Handling and use of materials, tools and equipment 3.6 Applying mensuration 3.7 Implementing 3R and 5S

4. Erect wooden scaffolds	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables 4.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 4.2 Soleplates/ timber planks are prepared, placed and spaced accordingly considering ground surface conditions based on design requirements 4.3 Wooden scaffold components are erected, plumbed and leveled based on design requirements 4.4 Wooden scaffolds systems are checked based on design requirements 4.5 Lifeline for fall protection devices (harness) are installed in accordance with job specification and OSHS requirements. 4.6 Work area is cleaned according to safety	REQUIRED KNOWLEDGE 4.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 4.2 Working at heights procedures 4.3 Safe handling and standard specification of materials, tools and equipment 4.4 Markings and labels 4.5 Company rules and regulations 4.6 Mensuration 4.7 Green Building Concept relative to Construction (3R, 5S) 4.8 Assembly and erection procedures 4.9 Factors affecting productivity 4.10 Productivity work measurements 4.11 Ways of improving productivity	FEQUIRED SKILLS 5.1 Using PPE 5.2 Communicating effectively 5.3 Following company rules and regulations 5.4 Organizing materials to be used 5.5 Handling and use of materials, tools and equipment 5.6 Applying mensuration 5.7 Complying requirements of the erection procedure 5.8 Implementing 3R and 5S
	OSHS requirements.		

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
5. Strip form panels and dismantle scaffold	5.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 5.2 Tools, equipment and staging area are prepared 5.3 Bracing, supports and form panels are removed as scheduled accordingly 5.4 Shores and scaffolds are removed according to schedule 5.5 Panels and other components are sorted, clean and stored for the next reuse 5.6 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)	5.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 5.2 Working at heights procedures 5.3 Safe handling and standard specification of materials, tools and equipment 5.4 Markings and labels 5.5 Company rules and regulations 5.6 Green Building Concept relative to Construction (3R, 5S) 5.7 Stripping and dismantling schedule 5.8 Stripping and dismantling procedures 5.9 Factors affecting productivity 5.10 Productivity work measurements	 5.1 Using PPE 5.2 Communicating effectively 5.3 Following company rules and regulations 5.4 Organizing materials to be used 5.5 Handling and use of materials, tools and equipment 5.6 Complying requirements in stripping and dismantling 5.7 Implementing 3R and 5S

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
6. Clean and store reusable form panels and components	 6.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 6.2 Materials such as scaffolding and formworks are recovered and stockpiled according to company rules and procedures 6.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 6.4 Tools, equipment and other materials are cleaned after use. 6.5 Required output is completed as specified by the immediate supervisor based on work schedule. 	 6.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 6.2 Safe handling and standard specification of materials, tools and equipment 6.3 Green Building Concept relative to Construction (3R, 5S) 6.4 Safety signs and symbols 6.5 Adherence to work requirements 	6.1 Working safely 6.2 Organizing materials to be stored 6.3 Handling and use of materials, tools and equipment 6.4 Communicating effectively 6.5 Using PPE 6.6 Implementing 3R and 5S

VARIABLE	RANGE
Personal Protective Equipment (PPE)	Include: 1.1 Hard hat 1.2 Safety shoes 1.3 Gloves 1.4 Working clothes 1.5 Goggles 1.6 Vest 1.7 Full body harness
3. Materials, tools and equipment	May include: 3.1 Lumber 3.2 Plywood 3.3 Nails 3.4 G.I. Wires 3.5 Chalk line box 3.6 Pen Marker/ Pencil/Chalk stone 3.7 Claw hammer 3.8 Sledge hammer 3.9 Level hose/ level bar 3.10 Pull push rule/ steel tape/ laser meter 3.11 Nylon string 3.12 Plumb bob 3.13 Steel square 3.14 Carpenter's square 3.15 Lifting equipment 3.16 Crow bar 3.17 Cross-cut saw 3.18 Rip saw 3.19 Adjustable wrench
4. Job requirements	May include: 3.1 Approved working drawings 3.2 Sketches/ Shop drawings
5. Ground surface conditions	May include: 5.1 Compacted 5.2 Level 5.3 Slab on grade

6. Wooden scaffold	May include:
components	6.1 Platforms
	6.2 Vertical support
	6.3 Shoring
	6.4 Sole plates
	6.5 Lateral and diagonal supports

1. Critical aspects of	Assessment requires evidence that the candidate:
Competency	1.1 Prepared materials, tools and equipment consistent with
	job requirements
	1.2 Laid-out and cut dimension of form sheating and stiffeners
	according to required dimensions
	1.3 Assembled and erected form panels and components
	compliance with job requirements
	1.4 Erected wooden scaffolds based on design requirements
	1.5 Stripped form panels and dismantled scaffold according to schedule
	1.6 Cleaned and stored reusable form panels and components
	1.7 Observed and complied with safety and environmental
	regulations
	1.8 Communicated with others to ensure effective work
	operation
	1.9 Observed and complied with the productivity requirements
	1.10 Complied with attitudinal work requirements
	The College Communication of the Landscott College Col
2. Resource implications	The following resources should be provided:
	2.1 Actual or simulated workplace
	2.2 Tools, materials and equipment needed to perform the
	required tasks 2.3 References and manuals
	2.4 PPE
	2.5 First Aid Kit
	Competency in this unit may be assessed through:
3. Method of assessment	3.1 Demonstration/Observation with Oral Questioning
	<u> </u>
4. Context for	4.1 Competency may be assessed in actual workplace or at the
assessment	designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : INSTALL WOODEN DOOR JAMB, WINDOW FRAME

AND PANELS

UNIT CODE : CON711303

UNIT DESCRIPTOR : This unit covers the knowledge, skills, and attitudes in the

installation of wooden door jamb, window frame and

panels.

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Prepare materials and tools	1.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 1.2 List of materials and tools are secured and followed according to job requirements 1.3 <i>Material and tools</i> are selected, inspected and prepared consistent with job requirements. 1.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 1.5 Required output is completed as specified by the immediate supervisor based on work schedule.	1.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 1.2 Safe handling and standard specification of materials and tools 1.3 Markings and labels 1.4 Company rules and regulations 1.5 Mensuration 1.6 Green Building Concept relative to Construction (3R, 5S) 1.7 Safe and effective use of hand tools 1.8 Factors affecting productivity 1.9 Productivity work measurements 1.10 Ways of improving productivity 1.11 Adherence to work requirements	1.1 Using PPE 1.2 Communicating effectively 1.3 Following company rules and regulations 1.4 Organizing materials to be used 1.5 Handling and use of materials and tools 1.6 Applying mensuration 1.7 Implementing 3R and 5S

	ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2.	Layout location	2.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards. 2.2 Exact location is marked for door and window opening based on working drawings 2.3 Clearance of opening is checked based on working drawings 2.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 2.5 Required output is completed as specified by the immediate supervisor based on work schedule.	2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 2.2 Green Building Concept relative to Construction (5S) 2.3 Signs and symbols 2.4 Company rules and regulations 2.5 Methods and techniques in measurements 2.6 Understanding instructions 2.7 Factors affecting productivity 2.8 Productivity work measurements 2.9 Ways of improving productivity 2.10 Adherence to work requirements	2.1 Applying mensuration 2.2 Applying productive methods and techniques 2.3 Using PPE 2.4 Communicating effectively 2.5 Following company rules and regulations 2.6 Following instructions 2.7 Reading and understanding drawings 2.8 Implementing 5S

	PERFORMANCE		
ELEMENT	CRITERIA	REQUIRED	REQUIRED SKILLS
LLLIVILIVI	Italicized terms are elaborated in the	KNOWLEDGE	REQUIRED SKILES
	Range of Variables		
3. Fix door jamb	3.1 Personal protective	3.1 DOLE Department	3.1 Using PPE
and panels	equipment (PPE) is	Order No. 13 series	3.2 Communicating
•	used in accordance	1998 Guidelines	effectively
	with Rule 1080 of	Governing	3.3 Following company
	Occupational Safety	Occupational Safety	rules and
	and Health Standards.	and Health in the	regulations
	3.2 Assembled jamb and	Construction Industry	3.4 Organizing
	panels are selected	3.2 Green Building Concept	materials to be
	and checked for	relative to Construction	used
	compliance with job	(3R, 5S)	3.5 Handling and use
	requirements	3.3 Safe handling and	of materials and
	3.3 Jambs are	standard specification of materials and tools	tools
	temporarily positioned to hold assembled	3.4 Markings and labels	3.6 Applying mensuration
	panels as per	3.5 Company rules and	3.7 Installing hardware
	drawings.	regulations	accessories
	3.4 Installed jamb and	3.6 Mensuration	3.8 Implementing 3R
	panels are checked	3.7 Installation procedures	and 5S
	for squareness,	3.8 Factors affecting	S.1.10. 0 0
	levelness, plumbness	productivity	
	and alignment.	3.9 Productivity work	
	3.5 Jamb and panels	measurements	
	are positioned and	3.10 Ways of improving	
	fixed to openings	productivity	
	3.6 Work area is cleaned		
	according to safety		
	and environmental		
	regulations (e.g. PD		
	1152 Section 6, 8 &		
	42) 3.7 Required output is		
	completed as		
	specified by the		
	immediate supervisor		
	based on work		
	schedule.		

	PERFORMANCE		
	CRITERIA	DECLUBED	
ELEMENT	Italicized terms are	REQUIRED	REQUIRED SKILLS
	elaborated in the	KNOWLEDGE	
	Range of Variables		
4. Fix window	4.1 Personal protective	4.1 DOLE Department	4.1 Using PPE
frames and	equipment (PPE) is	Order No. 13 series	4.2 Communicating
panels	used in accordance	1998 Guidelines	effectively
	with Rule 1080 of	Governing Occupational	4.3 Following
	Occupational	Safety and Health in the	company rules
	Safety and Health	Construction Industry	and regulations
	Standards.	4.2 Green Building Concept	4.4 Organizing
	4.2 Assembled window	relative to Construction	materials to be
	frames and panels	(3R, 5S)	used
	are selected and	4.3 Safe handling and	4.5 Handling and use
	checked for	standard specification of	of materials and
	compliance with job	materials and tools	tools
	requirements	4.4 Markings and labels	4.6 Applying
	4.3 Window frames are	4.5 Company rules and	mensuration
	positioned and	regulations	4.7 Installing hardware
	panels are	4.6 Mensuration	accessories
	temporarily	4.7 Installation procedures	4.8 Implementing 3R
	installed as per	4.8 Factors affecting	and 5S
	drawings.	productivity	
	4.4 Installed window	4.9 Productivity work	
	frame and panels	measurements	
	are checked for	4.10 Ways of improving	
	squareness,	productivity	
	levelness,		
	plumbness and		
	alignment.		
	4.5 Window frames		
	and panels are		
	positioned and		
	fixed to openings		
	4.6 Work area is		
	cleaned according		
	to safety and		
	environmental		
	regulations (e.g.		
	PD 1152 Section 6,		
	8 & 42)		
	4.7 Required output is		
	completed as		
	specified by the		
	immediate		
	supervisor based		
	on work schedule.		

ELEMENT 5. Perform	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables 5.1 Personal protective	REQUIRED KNOWLEDGE	REQUIRED SKILLS 5.1 Working safely
housekeeping	equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards. 5.2 Excess/un-used materials are recovered and stockpiled according to company rules and procedures 5.3 Work area is cleaned according to safety and environmental regulations(e.g. PD 1152 Section 6, 8 & 42) 5.4 Tools and other materials are cleaned after use. 5.1 Required output is completed as specified by the immediate supervisor based on work schedule.	Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 5.2 Green Building Concept relative to Construction (3R, 5S) 5.3 Safe handling and standard specification of materials and tools 5.4 Safety signs and symbols 5.5 Adherence to work requirements	5.2 Organizing materials to be stored 5.3 Handling and use of materials and tools 5.4 Communicating effectively 5.5 Using PPE 5.6 Implementing 3R and 5S

VARIABLE	RANGE
1. Personal Protective Equipment (PPE)	Include: 1.1 Hard hat 1.2 Safety shoes 1.3 Gloves 1.4 Working clothes 1.5 Goggles 1.6 Vest
2. Materials and hand tools	May include: 2.1 Lumber 2.2 Nails 2.3 G.I. Wires 2.4 Chalk line box 2.5 Pen Marker/ Pencil/Chalk stone 2.6 Claw hammer 2.7 Sledge hammer 2.8 Level hose/ level bar 2.9 Pull push rule/ steel tape/ laser meter 2.10 Nylon string 2.11 Plumb bob 2.12 Steel square/Carpenter's square 2.13 Combination square 2.14 Wood chisel 2.15 Screw driver
3. Jamb and panels	May include: 3.1 Lockset 3.2 Hinges 3.3 Door knob 3.4 Barrel bolt 3.5 Door stopper
4. Job requirements	May include: 3.1 Approved working drawings 3.2 Sketches/ Shop drawings
5. Panels	May include: 4.1 Door 4.2 Window

1. Critical aspects of	Assessment requires evidence that the candidate:
Competency	1.1 Prepared materials and tools consistent with job
	requirements
	1.2 Laid-out location based on working drawings
	1.3 Fixed door jamb and panels as per drawings
	1.4 Fixed window frames and panels as per drawings
	1.5 Performed housekeeping
	Observed and complied with safety and environmental regulations
	Communicated with others to ensure effective work operation
	1.8 Observed and complied with the productivity requirements
	1.9 Complied with attitudinal work requirements
	· ·
2. Resource implications	The following resources should be provided:
	2.1 Actual or simulated workplace
	2.2 Tools, materials and equipment needed to perform the
	required tasks
	2.3 References and manuals
	2.4 PPE
	2.5 First Aid Kit
3. Method of	Competency in this unit may be assessed through:
assessment	3.1 Demonstration/Observation with Oral Questioning
4. Context for	4.1 Competency may be assessed in actual workplace or at the
assessment	designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : INSTALL CEILING AND WALL FRAMES AND

PANELS

UNIT CODE : CON711304

UNIT DESCRIPTOR : This unit covers the knowledge, skills, and

attitudes in the installation of ceiling and wall

frames and panels.

	PERFORMANCE		
ELEMENT	CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Prepare materials, tools and equipment	 1.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 1.2 List of materials, tools and equipment are secured and followed according to job requirements 1.3 <i>Material, tools and equipment</i> are selected, inspected and prepared consistent with job requirements. 1.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 1.5 Required output is completed as specified by the immediate supervisor based on work schedule. 	1.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 1.2 Green Building Concept relative to Construction (3R, 5S) 1.3 Safe handling and standard specification of materials, tools and equipment 1.4 Markings and labels 1.5 Company rules and regulations 1.6 Mensuration 1.7 Safe and effective use of hand tools 1.8 Factors affecting productivity 1.9 Productivity work measurements 1.10 Ways of improving productivity 1.11 Adherence to work requirements	1.1 Using PPE 1.2 Communicating effectively 1.3 Following company rules and regulations 1.4 Organizing materials to be used 1.5 Handling and use of materials, tools and equipment 1.6 Applying mensuration 1.7 Implementing 3R and 5S

ELEMENT 2. Erect movable	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Erect movable scaffolds or working platforms	2.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards. 2.2 Scaffolds or platforms and components are erected and stability is ensured based on work requirements and safety standards 2.3 Work area is cleaned according to safety and environmental regulations 2.4 Required output is completed as specified by the immediate supervisor based on work schedule.	 2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 2.2 Green Building Concept relative to Construction (3R, 5S) 2.3 Working at heights procedures 2.4 Safe handling and standard specification of materials, tools and equipment 2.5 Company rules and regulations 2.6 Mensuration 2.7 Factors affecting productivity 2.8 Productivity work measurements 2.9 Ways of improving productivity 	2.1 Using PPE 2.2 Communicating effectively 2.3 Following company rules and regulations 2.4 Organizing materials to be used 2.5 Handling and use of materials, tools and equipment 2.6 Applying mensuration 2.7 Implementing 3R and 5S 2.8 Complying safety requirements on erection procedure

	PERFORMANCE		
ELEMENT	CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Layout ceiling elevation, wall location and position of framing system	3.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 3.2 Exact layout is marked for ceiling and wall frames based on working drawings 3.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 3.4 Required output is completed as specified by the immediate supervisor based on work schedule.	3.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 3.2 Green Building Concept relative to Construction (5S) 3.3 Signs and symbols 3.4 Company rules and regulations 3.5 Methods and techniques in measurements 3.6 Understanding instructions 3.7 Factors affecting productivity 3.8 Productivity work measurements 3.9 Ways of improving productivity 3.10 Adherence to work requirements	3.1 Applying mensuration 3.2 Handling and use of materials, tools and equipment 3.3 Applying productive methods and techniques 3.4 Using PPE 3.5 Communicating effectively 3.6 Following company rules and regulations 3.7 Following instructions 3.8 Reading and understanding drawings 3.9 Implementing 5S

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
4. Fix frames and panels	4.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 4.2 Frames are installed based on specifications 4.3 Installed frames are checked for squareness, levelness, plumbness and alignment. 4.4 Panels are fixed to frames based on working drawings 4.5 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 4.6 Required output is completed as specified by the immediate supervisor based on work schedule.	 4.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 4.2 Green Building Concept relative to Construction (3R, 5S) 4.3 Safe handling and standard specification of materials, tools and equipment 4.4 Markings and labels 4.5 Company rules and regulations 4.6 Mensuration 4.7 Installation procedures 4.8 Factors affecting productivity 4.9 Productivity work measurements 4.10 Ways of improving productivity 	4.1 Using PPE 4.2 Communicating effectively 4.3 Following company rules and regulations 4.4 Organizing materials to be used 1.8 Handling and use of materials, tools and equipment 4.5 Applying mensuration 4.6 Reading and understanding drawings 4.7 Implementing 3R and 5S

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
5. Dismantle movable scaffolds or working platforms	 5.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 5.2 Tools for dismantling and temporary storage area are prepared 5.3 Scaffolds or platforms components are removed, cleaned, sorted and stored accordingly for re-use 5.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 5.5 Required output is completed as specified by the immediate supervisor based on work schedule. 	5.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 5.2 Green Building Concept relative to Construction (3R, 5S) 5.3 Working at heights procedures 5.4 Safe handling and standard specification of materials, tools and equipment 5.5 Markings and labels 5.6 Company rules and regulations 5.7 Dismantling procedures 5.8 Factors affecting productivity 5.9 Productivity work measurements	5.1 Using PPE 5.2 Communicating effectively 5.3 Following company rules and regulations 5.4 Organizing materials to be used 5.5 Handling and use of materials, tools and equipment 5.6 Complying requirements in dismantling scaffolds and components 5.7 Implementing 3R and 5S

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
6. Perform housekeeping	 6.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards. 6.2 Excess/un-used materials are recovered and stockpiled according to company rules and procedures 6.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 6.4 Tools and other materials are cleaned after use 6.5 Required output is completed as specified by the immediate supervisor based on work schedule. 	6.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 6.2 Green Building Concept relative to Construction (3R, 5S) 6.3 Safe handling and standard specification of materials, tools and equipment 6.4 Safety signs and symbols 6.5 Adherence to work requirements	 6.1 Working safely 6.2 Organizing materials to be stored 6.3 Handling and use of materials, tools and equipment 6.4 Communicating effectively 6.5 Using PPE 6.6 Implementing 3R and 5S

VARIABLE	RANGE
1. Personal Protective Equipment (PPE)	Include: 1.1 Hard hat 1.2 Safety shoes 1.3 Gloves 1.4 Working clothes 1.5 Goggles 1.6 Vest
5. Materials, tools and equipment	May include: 2.1 Lumber 2.2 Nails (Common wire nail and concrete nail) 2.3 G.I. Wires 2.4 Chalk line box 2.5 Pen Marker/ Pencil/Chalk stone 2.6 Claw hammer 2.7 Planer 2.8 Rip saw 2.9 Cross-cut saw 2.10 Level hose/ level bar 2.11 Pull push rule/ steel tape/ laser meter 2.12 Nylon string 2.13 Plumb bob 2.14 Steel square/Carpenter's square 2.15 Scaffolds and components 2.16 Adjustable wrench
6. Job requirements	May include: 5.1 Approved working drawings 5.2 Sketches/ Shop drawings

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Critical aspect of Competency	 Assessment requires evidence that the candidate: 1.1 Prepared materials, tools and equipment consistent with job requirements 1.2 Erected movable scaffolds or working platforms based on work requirements and safety standards 1.3 Laid out ceiling elevation, wall location and position of framing system based on working drawings 1.4 Fixed frames and panels based on working drawings 1.5 Dismantled movable scaffolds or working platforms 1.6 Performed housekeeping 1.7 Observed and complied with safety and environmental regulations 1.8 Communicated with others to ensure effective work operation 1.9 Observed and complied with the productivity requirements 1.10 Complied with attitudinal work requirements
2. Resource implications	The following resources should be provided: 5.1 Actual or simulated workplace 5.2 Tools, materials and equipment needed to perform the required tasks 5.3 References and manuals 5.4 PPE 5.5 First Aid Kit
3. Method of assessment	Competency in this unit may be assessed through: 3.1 Demonstration/Observation with Oral Questioning
Context for assessment	4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : FABRICATE AND INSTALL WOODEN STAIRS

UNIT CODE : CON711305

UNIT DESCRIPTOR : This unit covers the knowledge, skills, and

attitudes in the fabrication and installation of

wooden stairs, handrails and baluster.

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Prepare materials, tools and equipment	1.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 1.2 List of materials, tools and equipment are secured and followed according to job requirements 1.3 Materials, tools and equipment are selected, inspected and prepared consistent with job requirements. 1.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 1.5 Required output is completed as specified by the immediate supervisor based on work schedule.	1.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 1.2 Green Building Concept relative to Construction (3R, 5S) 1.3 Safe handling and standard specification of materials, tools and equipment 1.4 Markings and labels 1.5 Company rules and regulations 1.6 Mensuration 1.7 Safe and effective use of hand tools 1.8 Factors affecting productivity 1.9 Productivity work measurements 1.10 Ways of improving productivity 1.11 Adherence to work requirements	1.1 Using PPE 1.2 Communicating effectively 1.3 Following company rules and regulations 1.4 Organizing materials to be used 1.5 Handling and use of materials, tools and equipment 1.6 Applying mensuration 1.7 Implementing 3R and 5S 1.8 Reading and understanding drawings

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Erect scaffolds	2.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 2.2 Scaffold systems are erected and stability is ensured based on work requirements and safety standards 2.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 2.4 Required output is completed as specified by the immediate supervisor based on work schedule.	2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 2.2 Green Building Concept relative to Construction (3R, 5S) 2.3 Working at heights procedures 2.4 Safe handling and standard specification of materials, tools and equipment 2.5 Markings and labels 2.6 Company rules and regulations 2.7 Mensuration 2.8 Assembly and erection procedures 2.9 Factors affecting productivity 2.10 Productivity work measurements 2.11 Ways of improving productivity	 2.1 Using PPE 2.2 Communicating effectively 2.3 Following company rules and regulations 2.4 Organizing materials to be used 2.5 Handling and use of materials, tools and equipment 2.6 Applying mensuration 2.7 Complying safety requirements on erection procedure 2.8 Implementing 3R and 5S

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
6. Layout location and stair elevation	3.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 3.2 Exact location of stairs including riser and thread are marked based on working drawings 3.3 Exact location of handrails and balusters are marked for based on working drawings 3.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 3.5 Required output is completed as specified by the immediate supervisor based on work schedule.	 3.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 3.2 Green Building Concept relative to Construction (5S) 3.3 Signs and symbols 3.4 Company rules and regulations 3.5 Methods and techniques in measurements 3.6 Understanding instructions 3.7 Factors affecting productivity 3.8 Productivity work measurements 3.9 Ways of improving productivity 3.10 Adherence to work requirements 	3.1 Applying mensuration 3.2 Handling and use of materials, tools and equipment 3.3 Applying productive methods and techniques 3.4 Implementing 5S 3.5 Using PPE 3.6 Communicating effectively 3.7 Following company rules and regulations 3.8 Following instructions 3.9 Reading and understanding drawings

	PERFORMANCE		
ELEMENT	CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
4. Place wooden stringer, threads, handrails and baluster	 4.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 4.2 Wooden stringers are cut and fabricated based on working drawing and/or actual requirements 4.3 Wooden stringer and thread are positioned and fixed based on working drawings. 4.4 Handrails and balusters are installed based on working drawings 4.5 Wooden stairs assembly are checked for stability and firmness. 4.6 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 4.7 Required output is completed as specified by the immediate supervisor based on work schedule. 	 4.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 4.2 Green Building Concept relative to Construction (3R, 5S) 4.3 Safe handling of materials, tools and equipment 4.4 Markings and labels 4.5 Company rules and regulations 4.6 Mensuration 4.7 Installation procedures 4.8 Factors affecting productivity 4.9 Productivity work measurements 4.10 Ways of improving productivity 	4.1 Using PPE 4.2 Communicating effectively 4.3 Following company rules and regulations 4.4 Organizing materials to be used 4.5 Handling and use of materials, tools and equipment 4.6 Applying mensuration 4.7 Implementing 3R and 5S 4.8 Following installation procedures

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
5. Dismantle scaffolds	5.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 5.2 Tools for dismantling and temporary storage area are prepared 5.3 Scaffold components are removed, cleaned, sorted and stored accordingly for re-use 5.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 5.5 Required output is completed as specified by the immediate supervisor based on work schedule.	5.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 5.2 Green Building Concept relative to Construction (3R, 5S) 5.3 Working at heights procedures 5.4 Safe handling of materials and hand tools 5.5 Markings and labels 5.6 Company rules and regulations 5.7 Dismantling procedures 5.8 Factors affecting productivity 5.9 Productivity work measurements	5.1 Using PPE 5.2 Communicating effectively 5.3 Following company rules and regulations 5.4 Organizing materials to be used 5.5 Handling and use of materials, tools and equipment 5.6 Implementing 3R and 5S 5.7 Complying requirements in dismantling scaffolds and components

	ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
6.	Perform housekeeping	 6.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards. 6.2 Excess/un-used materials are recovered and stockpiled according to company rules and procedures 6.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 6.4 Tools and other materials are cleaned after use 6.5 Required output is completed as specified by the immediate supervisor based on work schedule. 	 6.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 6.2 Green Building Concept relative to Construction (3R, 5S) 6.3 Safe handling and standard specification of materials, tools and equipment 6.4 Safety signs and symbols 6.5 Adherence to work requirements 	6.1 Working safely 6.2 Organizing materials to be stored 6.3 Handling and use of materials, tools and equipment 6.4 Communicating effectively 6.5 Using PPE 6.6 Implementing 3R and 5S

VARIABLE	RANGE
Personal Protective Equipment (PPE)	Include: 1.1 Hard hat 1.2 Safety shoes 1.3 Gloves 1.4 Working clothes 1.5 Goggles 1.6 Vest
2. Job requirements	May include: 2.1 Approved working drawings 2.2 Sketches/ Shop drawings
3. Materials, tools and equipment	May include: 3.1 Lumber 3.2 Nails (common wire) 3.3 G.I. Wires 3.4 Chalk line box 3.5 Pen Marker/ Pencil/Chalk stone 3.6 Wood adhesive 3.7 Claw hammer 3.8 Chisel 3.9 Level hose/ level bar 3.10 Pull push rule/ steel tape/ laser meter 3.11 Nylon string 3.12 Plumb bob 3.13 Steel square/Carpenter's square 3.14 Grinder 3.15 Sander 3.16 Circular saw/Jig saw with vacuum 3.17 Planer 3.18 Electric drill with bits 3.19 Adjustable wrench
3. Scaffold systems	May include: 3.1 Platforms 3.2 Braces 3.3 Shoring 3.4 Base- plates 3.5 Lateral, diagonal and vertical supports

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4.Stairs assembly	May include:
	4.1Stringer
	4.2 Thread
	4.3 Handrail
	4.4 Balusters
	4.5 Landing
	, and the second

Critical aspects	Assessment requires evidence that the candidate:
of Competency	1.1 Prepared materials, tools and equipment consistent with job requirements
	1.2 Erected scaffolds based on work requirements and safety standards
	Laid-out location and stair elevation based on working drawings
	1.4 Placed wooden stairs, stringer, thread, handrails and baluster 1.5 Dismantled scaffold
	1.6 Performed housekeeping
	1.7 Observed and complied with safety and environmental regulations
	Communicated with others to ensure effective work operation
	1.9 Observed and complied with the productivity requirements
	1.10 Complied with attitudinal work requirements
2. Resource implications	The following resources should be provided:
-	2.1 Actual or simulated workplace
	2.2 Tools, materials and equipment needed to perform the required tasks
	2.3 References and manuals
	2.4 PPE
	2.5 First Aid Kit
3. Method of	Competency in this unit may be assessed through:
assessment	3.1 Demonstration/Observation with Oral Questioning
Context for assessment	4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : INSTALL WOODEN FLOOR SUPPORTS AND

PANELS

UNIT CODE : CON711306

UNIT DESCRIPTOR : This unit covers the knowledge, skills, and

attitudes in installation of wooden floor supports

and panels.

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Prepare materials, tools and equipment	1.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 1.2 List of materials and tools are secured and followed according to job requirements 1.3 Material, tools and equipment are selected, inspected and prepared consistent with job requirements. 1.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 1.5 Required output is completed as specified by the immediate supervisor based on work schedule.	1.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 1.2 Green Building Concept relative to Construction (3R, 5S) 1.3 Safe handling and standard specification of materials, tools and equipment 1.4 Markings and labels 1.5 Company rules and regulations 1.6 Mensuration 1.7 Safe and effective use of hand tools 1.8 Factors affecting productivity 1.9 Productivity work measurements 1.10 Ways of improving productivity 1.11 Adherence to work requirements	1.1 Using PPE 1.2 Communicating effectively 1.3 Following company rules and regulations 1.4 Organizing materials to be used 1.5 Handling and use of materials, tools and equipment 1.6 Applying mensuration 1.7 Implementing 3R and 5S 1.8 Reading and understanding drawings

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Erect scaffolds	2.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 2.2 Scaffold systems are erected and stability is ensured based on work requirements and safety standards 2.3 Work area is cleaned according to safety and environmental regulations 2.4 Required output is completed as specified by the immediate supervisor based on work schedule.	2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 2.2 Green Building Concept relative to Construction (3R, 5S) 2.3 Working at heights procedures 2.4 Safe handling of materials, tools and equipment 2.5 Markings and labels 2.6 Company rules and regulations 2.7 Mensuration 2.8 Assembly and erection procedures 2.9 Factors affecting productivity 2.10 Productivity work measurements 2.11 Ways of improving productivity	2.1 Using PPE 2.2 Communicating effectively 2.3 Following company rules and regulations 2.4 Organizing materials to be used 2.5 Handling and use of materials, tools and equipment 2.6 Complying safety requirements on erection procedure 2.7 Implementing 3R and 5S

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Layout floor elevation,	3.1 Personal protective	3.1 DOLE Department Order No. 13 series 1998	3.1 Applying mensuration
location and position of	equipment (PPE) is used in accordance with Rule 1080 of	Guidelines Governing Occupational Safety and	3.2 Handling and use of materials
framing system	Occupational Safety and Health Standards	Health in the Construction Industry 3.2 Green Building Concept	and hand tools 3.3 Applying productive
	3.2 Exact location is marked for wooden	relative to Construction (5S)	methods and techniques
	floor supports, joists and panels based on working drawings	3.3 Signs and symbols 3.4 Company rules and regulations	3.4 Implementing 5S3.5 Using PPE3.6 Communicating
	3.3 Work area is cleaned according to safety	3.5 Methods and techniques in measurements	effectively 3.7 Following
	and environmental regulations (e.g. PD	3.6 Understanding instructions	company rules and regulations
	1152 Section 6, 8 & 42)	3.7 Factors affecting productivity	3.8 Following instructions
	3.4 Required output is completed as	3.8 Productivity work measurements	3.9 Reading and understanding
	specified by the immediate supervisor	3.9 Ways of improving productivity	drawings
	based on work schedule.	3.10 Adherence to work requirements	

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ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Place wooden floor supports and panels	 4.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 4.2 Floor supports are positioned and fixed as per working drawings 4.3 Floor framings are checked for levelness and alignment. 4.4 Floor Panels are fixed based on working drawings. 4.5 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 4.6 Required output is completed as specified by the immediate supervisor based on work schedule. 	 4.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 4.2 Green Building Concept relative to Construction (3R, 5S) 4.3 Safe handling of materials, tools and equipment 4.4 Markings and labels 4.5 Company rules and regulations 4.6 Mensuration 4.7 Different types of wood joints 4.8 Economic use of material 4.9 Installation procedures 4.10 Factors affecting productivity 4.11 Productivity work measurements 4.12 Ways of improving productivity 	4.1 Using PPE 4.2 Communicating effectively 4.3 Following company rules and regulations 4.4 Organizing materials to be used 4.5 Handling and use of materials, tools and equipment 4.6 Applying mensuration 4.7 Implementing 3R and 5S 4.8 Following installation procedures 4.9 Reading and understanding drawings 4.10 Performing basic joinery

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
5. Dismantle scaffolds	5.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 5.2 Tools for dismantling and temporary storage area are prepared 5.3 Scaffold components are removed, cleaned, sorted and stored accordingly for re-use 5.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 5.5 Required output is completed as specified by the immediate supervisor based on work schedule.	 5.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 5.2 Green Building Concept relative to Construction (3R, 5S) 5.3 Working at heights procedures 5.4 Safe handling of materials and hand tools 5.5 Markings and labels 5.6 Company rules and regulations 5.7 Dismantling procedures 5.8 Factors affecting productivity 5.9 Productivity work measurements 	5.1 Using PPE 5.2 Communicating effectively 5.3 Following company rules and regulations 5.4 Organizing materials to be used 5.5 Handling and use of materials, tools and equipment 5.6 Implementing 3R and 5S 5.7 Complying requirements in dismantling scaffolds and components

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
6. Perform housekeeping	 6.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards. 6.2 Excess/un-used materials are recovered and stockpiled according to company rules and procedures 6.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 6.4 Tools and other materials are cleaned after use 6.5 Required output is completed as specified by the immediate supervisor based on work schedule. 	 6.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 6.2 Green Building Concept relative to Construction (3R, 5S) 6.3 Safe handling and standard specification of materials and tools 6.4 Safety signs and symbols 6.5 Adherence to work requirements 	 6.1 Working safely 6.2 Organizing materials to be stored 6.3 Handling and use of materials and tools 6.4 Communicating effectively 6.5 Using PPE 6.6 Implementing 3R and 5S

VARIABLE	RANGE
1. Personal Protective Equipment (PPE)	Include: 1.1 Hard hat 1.2 Safety shoes 1.3 Gloves 1.4 Working clothes 1.5 Goggles 1.6 Vest 1.7 Full body harness (or alternative fall protection system such as railings/guard rails)
2. Job requirements	May include: 2.1 Approved working drawings 2.2 Sketches/ Shop drawings
3. Materials, tools and equipment	May include: 2.1 Lumber 2.2 Nails 2.3 G.I. Wires 2.4 Chalk line box 2.5 Pen Marker/ Pencil/Chalk stone 2.6 Claw hammer 2.7 Chisel 2.8 Cross-cut saw 2.9 Rip saw 2.10 Level hose/ level bar 2.11 Pull push rule/ steel tape/ laser meter 2.12 Nylon string 2.13 Plumb bob 2.14 Steel square/Carpenter's square 2.15 Grinder 2.16 Sander 2.17 Circular saw / jig saw with vacuum 2.18 Planer 2.19 Electric drill with bits 2.20 Adjustable wrench
3. Scaffolds systems	May include: 3.1 Platforms 3.2 Braces 3.3 Shoring 3.4 Base- plates 3.5 Lateral, diagonal and vertical supports

4. Floor supports	May Include:
	4.1 Beams/Girders
	4.2 Stringers
	4.3 Bridging
	4.4 Joist

Critical aspects	Assessment requires evidence that the candidate:
of Competency	1.1 Prepared materials, tools and equipment consistent with
	job requirements
	1.2 Erected scaffolds based on work requirements and safety
	standards
	1.3 Laid-out floor elevation, location and position of framing system based on working drawings
	1.4 Placed wooden floor supports and panels based on working drawings
	1.5 Dismantled scaffolds
	1.6 Performed housekeeping
	1.7 Observed and complied with safety and environmental regulations
	1.8 Communicated with others to ensure effective work operation
	1.9 Observed and complied with the productivity
	requirements
	1.10 Complied with attitudinal work requirements
	·
2. Resource implications	The following resources should be provided:
	2.1 Actual or simulated workplace
	2.2 Tools, materials and equipment needed to perform the required tasks
	2.3 References and manuals
	2.4 PPE
	2.5 First Aid Kit
3. Method of assessment	Competency in this unit may be assessed through:
	3.1 Demonstration/Observation with Oral Questioning
4. Context for assessment	4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : FABRICATE AND INSTALL ROOFING

SYSTEM

UNIT CODE : CON711307

UNIT DESCRIPTOR : This unit covers the knowledge, skills, and

attitudes in fabrication and installation of roofing system (wooden roof truss, purlins and roofing

sheets & accessories).

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Prepare materials, tools and equipment	 1.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 1.2 List of materials, hand tools and equipment are secured according to job requirements 1.3 Materials, hand tools and equipment are selected, inspected and prepared according to job requirements. 1.4 Fabrication and staging area are prepared based on job requirements 1.5 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 1.6 Required output is completed as specified by the immediate supervisor based on work schedule. 	1.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 1.2 Green Building Concept relative to Construction (3R, 5S) 1.3 Safe handling and standard specification of materials, tools and equipment 1.4 Markings and labels 1.5 Company rules and regulations 1.6 Mensuration 1.7 Safe and effective use of hand tools 1.8 Factors affecting productivity 1.9 Productivity work measurements 1.10 Ways of improving productivity 1.11 Adherence to work requirements	 1.1 Using PPE 1.2 Communicating effectively 1.3 Following company rules and regulations 1.4 Organizing materials to be used 1.5 Handling and use of materials, tools and equipment 1.6 Applying mensuration 1.7 Implementing 3R and 5S 1.8 Reading and understanding drawings

	ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2.	Erect scaffolds	2.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 2.2 Scaffold systems are erected and stability is ensured based on work requirements and safety standards 2.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 2.4 Required output is completed as specified by the immediate supervisor based on work schedule.	2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 2.2 Green Building Concept relative to Construction (3R, 5S) 2.3 Working at heights procedures 2.4 Safe handling and standard specification of materials, tools and equipment 2.5 Markings and labels 2.6 Company rules and regulations 2.7 Mensuration 2.8 Assembly and erection procedures 2.9 Factors affecting productivity 2.10 Productivity work measurements 2.11 Ways of improving productivity	2.1 Using PPE 2.2 Communicating effectively 2.3 Following company rules and regulations 2.4 Organizing materials to be used 2.5 Handling and use of materials, tools and equipment 2.6 Complying safety requirements on erection procedure 2.7 Implementing 3R and 5S

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Layout truss location and elevation	3.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 3.2 Exact location for roof truss assembly is marked based on working drawing 3.3 Work area is cleaned according to safety and environmental regulations 3.4 Required output is completed as specified by the immediate supervisor based on work schedule.	3.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 3.2 Green Building Concept relative to Construction (5S) 3.3 Signs and symbols 3.4 Company rules and regulations 3.5 Methods and techniques in measurements 3.6 Understanding instructions 3.7 Factors affecting productivity 3.8 Productivity work measurements 3.9 Ways of improving productivity 3.10 Adherence to work requirements	3.1 Applying mensuration 3.2 Handling and use of materials, tools and equipment 3.3 Applying productive methods and techniques 3.4 Using PPE 3.5 Communicating effectively 3.6 Following company rules and regulations 3.7 Following instructions 3.8 Implementing 5S

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
4. Assemble wooden roof truss	4.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 4.2 <i>Truss members</i> are cut, assembled, fastened and fixed based on working drawings. 4.3 Wooden roof truss assembly is placed in staging area. 4.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 4.5 Required output is completed as specified by the immediate supervisor based on work schedule.	 4.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 4.2 Green Building Concept relative to Construction (3R, 5S) 4.3 Working at heights procedures 4.4 Safe handling and standard specification of materials, tools and equipment 4.5 Markings and labels 4.6 Company rules and regulations 4.7 Mensuration 4.8 Fabrication of wooden roof truss 4.9 Different types of wood joints 4.10 Factors affecting productivity 4.11 Productivity work measurements 4.12 Ways of improving productivity 	4.1 Using PPE 4.2 Communicating effectively 4.3 Following company rules and regulations 4.4 Organizing materials to be used 4.5 Handling and use of materials, tools and equipment 4.6 Applying mensuration 4.7 Following fabrication procedures 4.8 Performing basic joinery 4.9 Reading and understanding drawings 4.10 Implementing 3R and 5S

	PERFORMANCE		
ELEMENT	CRITERIA	REQUIRED	REQUIRED SKILLS
ELEIVIEINI	Italicized terms are	KNOWLEDGE	REQUIRED SKILLS
	elaborated in the		
F Diago woodon	Range of Variables	E 4 DOLE Department	E 4 Hoise DDC
5.Place wooden	5.1 Personal protective	5.1 DOLE Department	5.1 Using PPE
roof truss	equipment (PPE) is	Order No. 13 series	5.2 Communicating
assembly,	used in accordance	1998 Guidelines	effectively
purlins and	with Rule 1080 of	Governing	5.3 Following company
fascia board	Occupational Safety	Occupational Safety	rules and
	and Health Standards	and Health in the	regulations
	5.2 Wooden roof truss	Construction Industry	5.4 Organizing
	assembly is lifted from	5.2 Green Building	materials to be
	staging area using	Concept relative to	used
	lifting equipment	Construction (3R, 5S)	5.5 Handling and use
	5.3 Wooden roof truss	5.3 Safe handling and	of materials, tools
	assembly is positioned	standard specification	and equipment
	and fixed according to	of materials, tools and	5.6 Applying
	job requirements	equipment	mensuration
	5.4 Alignment of all	5.4 Markings and labels	5.7 Implementing 3R
	installed wooden roof	5.5 Company rules and	and 5S
	truss assembly are	regulations	5.8 Following
	checked based on job	5.6 Mensuration	installation
	requirements	5.7 Installation procedures	procedures
	5.5 Purlins are installed as	5.8 Lifting procedures	5.9 Following lifting
	per required spacing	5.9 Different types of wood	procedures
	5.6 Fascia boards are	joints " "	requirements
	installed based on job	5.10 Factors affecting	5.10 Performing
	requirements	productivity	basic joinery
	5.7 Work area is cleaned	5.11 Productivity work	5.11 Reading and
	according to safety	measurements	understanding
	and environmental	5.12 Ways of improving	drawings
	regulations (e.g. PD	productivity	
	1152 Section 6, 8 &		
	42)		
	5.8 Required output is		
	completed as		
	specified by the		
	immediate supervisor		
	based on work		
	schedule.		

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
6.Place roofing sheets and accessories	6.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 6.2 Roofing sheets and bended and hardware accessories are lifted, positioned and fixed based on job requirements 6.3 Roofing system is checked based on job requirements 6.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 6.5 Required output is completed as specified by the immediate supervisor based on work schedule.	6.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 6.2 Safe handling and standard specification of materials, tools and equipment 6.3 Markings and labels 6.4 Company rules and regulations 6.5 Mensuration 6.6 Different types of wood joints 6.7 Installation procedures 6.8 Lifting procedures 6.9 Factors affecting productivity 6.10 Productivity work measurements 6.11 Ways of improving productivity	 6.1 Using PPE 6.2 Communicating effectively 6.3 Following company rules and regulations 6.4 Organizing materials to be used 6.5 Handling and use of materials, tools and equipment 6.6 Applying mensuration 6.7 Following installation procedures 6.8 Following lifting procedures requirements 6.9 Reading and understanding drawings 6.10 Performing basic joinery

	PERFORMANCE		
FLEMENT	CRITERIA	REQUIRED	REQUIRED
ELEMENT	Italicized terms are	KNOWLEDGE	SKILLS
	elaborated in the		
7 Diamontle coeffolds	Range of Variables	710015	7.4 Hoing DDE
7.Dismantle scaffolds	7.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 7.2 Tools for dismantling and temporary storage area are prepared 7.3 Scaffold components are removed, cleaned, sorted and stored accordingly for re-use 7.4 Work area is cleaned	7.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 7.2 Green Building Concept relative to Construction	7.1 Using PPE 7.2 Communicating effectively 7.3 Following company rules and regulations 7.4 Organizing materials to be used 7.5 Handling and use of materials, tools and equipment 7.6 Implementing
	according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 7.5 Required output is completed as specified by the immediate supervisor based on work schedule.	(3R, 5S) 7.3 Working at heights procedures 7.4 Safe handling and standard specification of materials, tools and equipment 7.5 Markings and labels 7.6 Company rules and regulations 7.7 Dismantling procedures 7.8 Factors affecting productivity 7.9 Productivity work measurements 7.10 Ways of improving productivity	3R and 5S 7.7 Complying requirements in dismantling scaffolds and components

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
8.Perform housekeeping	8.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards. 8.2 Excess/un-used materials are recovered and stockpiled according to company rules and procedures 8.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 8.4 Tools and other materials are cleaned after use 8.5 Required output is completed as specified by the immediate supervisor based on work schedule.	8.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 8.2 Green Building Concept relative to Construction (3R, 5S) 8.3 Safe handling and standard specification of materials, tools and equipment 8.4 Safety signs and symbols 8.5 Adherence to work requirements	8.1 Working safely 8.2 Organizing materials to be stored 8.3 Handling and use of materials, tools and equipment 8.4 Communicating effectively 8.5 Using PPE 8.6 Implementing 3R and 5S

VARIABLE	RANGE
1. Personal Protective Equipment (PPE)	Include: 1.1 Hard hat 1.2 Safety shoes 1.3 Gloves 1.4 Working clothes 1.5 Goggles 1.6 Vest 1.7 Full body harness
2. Job requirements	May include: 2.1 Approved working drawings 2.2 Sketches/ Shop drawings
3. Materials, hand tools and equipment	May include: 3.1 Lumber 3.2 Nails 3.3 G.I. Wires 3.4 Fascia board 3.5 Chalk line box 3.6 Pen Marker/ Pencil/Chalk stone 3.7 Sealant 3.8 Sealant gun 3.9 Riveter 3.10 Claw hammer 3.11 Cross-cut saw 3.12 Circular saw/jig saw with vacuum 3.13 Level hose/ level bar 3.14 Pull push rule/ steel tape/ laser meter 3.15 Nylon string 3.16 Plumb bob 3.17 Steel square/Carpenter's square 3.18 Tin snips 3.19 Roofing sheets 3.20 Bended accessories 3.21 Hardware accessories 3.22 Lifting equipment 3.23 Electric drill with bits 3.24 Adjustable wrench

VARIABLE	RANGE
4. Scaffold system	May include:
	4.1 Platforms
	4.2 Braces
	4.3 Shoring
	4.4 Base- plates
	4.5 Lateral, diagonal and vertical supports
5. Truss Members	May include:
	5.1 Bottom cord
	5.2 Top cord
	5.3 King post
	5.4 Vertical
	5.5 Diagonal
	5.6 Rafters
7. Lifting equipment	May include:
	6.1 Jib pole
	6.2 Electric Winch
	6.3 Pulley
	6.4 Nylon rope
O. Davida Landilanda	6.5 Chain block
8. Bended and hardware	May include:
accessories	Bended Accessories:
	7.1 Valley Gutter
	7.2 Flashing 7.3 Ridge roll
	7.4 Ridge cap
	7.5 Outside gutter
	7.5 Caloido galloi
	Hardware Accessories
	7.6 Rivet
	7.7 Tekscrew
	7.8 Sealant
	7.9 Concrete nail

EVIDENCE GUIDE

Critical aspects of Competency	Assessment requires evidence that the candidate: 1.1 Prepared materials, tools and equipment consistent with job requirements 1.2 Erected scaffolds based on work requirements and safety standards 1.3 Laid-out truss location and elevation based on working drawings 1.4 Placed wooden roof truss assembly, purlins and fascia board based on job requirements 1.5 Placed roofing sheets and accessories based on job requirements 1.6 Dismantled scaffolds 1.7 Performed housekeeping 1.8 Observed and complied with safety and environmental regulations 1.9 Communicated with others to ensure effective work operation 1.10 Observed and complied with the productivity requirements
Resource implications Method of assessment	 1.11 Complied with attitudinal work requirements The following resources should be provided: 2.1 Actual or simulated workplace 2.2 Tools, materials and equipment needed to perform the required tasks 2.3 References and manuals 2.4 PPE 2.5 First Aid Kit Competency in this unit may be assessed through:
5. Wethou of assessment	3.1 Demonstration/Observation with Oral Questioning
4. Context for assessment	4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : FABRICATE AND INSTALL WOODEN CABINET

UNIT CODE : CON711308

UNIT DESCRIPTOR : This unit covers the knowledge, skills, and attitudes in

fabrication and installation of wooden cabinet.

	PERFORMANCE		
ELEMENT	CRITERIA	REQUIRED	REQUIRED
ELEWIENI	Italicized terms are	KNOWLEDGE	SKILLS
	elaborated in the Range of Variables		
Prepare materials	1.1 Personal protective	1.1 DOLE Department	1.1 Using PPE
and tools	equipment (PPE) is	Order No. 13	1.2 Communicating
	used in accordance	series 1998	effectively
	with Rule 1080 of	Guidelines	1.3 Following
	Occupational Safety	Governing	company rules
	and Health	Occupational	and regulations
	Standards	Safety and Health	1.4 Organizing
	1.2 List of materials and	in the Construction	
	tools are secured	Industry	used
	according to job	1.2 Green Building	1.5 Handling and
	requirements	Concept relative	use of materials
	1.3 Materials and hand	to Construction	and tools
	tools are selected,	(3R, 5S)	1.6 Applying
	inspected and	1.3 Safe handling	mensuration
	prepared according	and standard	1.7 Implementing 3R
	to job requirements. 1.4 Fabrication area is	specification of materials and	and 5S
		tools	1.8 Reading and
	prepared based on job requirements	1.4 Markings and	understanding drawings
	1.5 Work area is cleaned	labels	urawings
	according to safety	1.5 Company rules	
	and environmental	and regulations	
	regulations	1.6 Mensuration	
	1.6 Required output is	1.7 Safe and effective	
	completed as	use of hand tools	
	specified by the	1.8 Factors affecting	
	immediate supervisor	productivity	
	based on work	1.9 Productivity work	
	schedule.	measurements	
		1.10 Ways of improving	
		productivity	
		1.11 Adherence to	
		work	
		requirements	
		requirements	

	PERFORMANCE		
ELEMENT	CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Assemble wooden cabinet	2.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 2.2 Parts are cut, assembled and fixed based on working drawings. 2.3 Wooden cabinet is checked based on working drawings 2.1 Work area is cleaned according to safety and environmental regulations 2.2 Required output is completed as specified by the immediate supervisor based on work schedule.	2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 2.2 Green Building Concept relative to Construction (3R, 5S) 2.3 Working at heights procedures 2.4 Safe handling and standard specification of materials and tools 2.5 Markings and labels 2.6 Company rules and regulations 2.7 Mensuration 2.8 Fabrication of wooden cabinet 2.9 Factors affecting productivity 2.10 Productivity work measurements 2.11 Ways of improving productivity	2.1 Using PPE 2.2 Communicating effectively 2.3 Following company rules and regulations 2.4 Organizing materials to be used 2.5 Handling and use of materials and tools 2.6 Applying mensuration 2.7 Following fabrication procedures 2.8 Implementing 3R and 5S

	PERFORMANCE		
ELEMENT	CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Layout location	3.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 3.2 Exact location for wooden cabinet is marked based on working drawings 3.3 Wooden cabinet is checked for levelness and alignment 2.1 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 2.2 Required output is completed as specified by the immediate supervisor based on work schedule.	3.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 3.2 Green Building Concept relative to Construction (5S) 3.3 Signs and symbols 3.4 Company rules and regulations 3.5 Methods and techniques in measurements 3.6 Understanding instructions 3.7 Factors affecting productivity 3.8 Productivity work measurements 3.9 Ways of improving productivity 3.10 Adherence to work requirements	3.1 Applying mensuration 3.2 Handling and use of materials and tools 3.3 Applying productive methods and techniques 3.4 Using PPE 3.5 Communicating effectively 3.6 Following company rules and regulations 3.7 Following instructions 3.8 Implementing 5S

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
4. Place wooden cabinet	 4.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 4.2 Wooden cabinet is lifted, positioned and fixed according to job requirements 4.3 Wooden cabinet is checked based on job requirements 2.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 2.4 Required output is completed as specified by the immediate supervisor based on work schedule. 	4.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 4.2 Green Building Concept relative to Construction (3R, 5S) 4.3 Safe handling and standard specification of materials, tools 4.4 Markings and labels 4.5 Company rules and regulations 4.6 Mensuration 4.7 Installation procedures 4.8 Factors affecting productivity 4.9 Productivity work measurements 4.10 Ways of improving productivity	4.1 Using PPE 4.2 Communicating effectively 4.3 Following company rules and regulations 4.4 Organizing materials to be used 4.5 Handling and use of materials and tools 4.6 Applying mensuration 4.7 Following installation procedures 4.8 Implementing 3R and 5S

E	LEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the	REQUIRED KNOWLEDGE	REQUIRED SKILLS
5. Perfo		Italicized terms are	•	· ·
		materials are cleaned after use 5.5 Required output is completed as specified by the immediate supervisor based on work schedule.	5.4 Safety signs and symbols 5.5 Adherence to work requirements	

RANGE OF VARIABLES

VARIABLE	RANGE
1. Personal Protective Equipment (PPE)	Include: 1.1 Hard hat 1.2 Safety shoes 1.3 Gloves 1.4 Working clothes 1.5 Goggles 1.6 Vest
2. Job requirements	May include: 2.1 Approved working drawings 2.2 Sketches/ Shop drawings
3. Materials, tools and equipment	May include: 3.1 Lumber 3.2 Nails 3.3 Chalk line box 3.4 Plywood 3.5 Hardware (Hinges, door handle, catches, hook and eye) 3.6 Pen Marker/ Pencil/Chalk stone 3.7 Wood Adhesive 3.8 Claw hammer 3.9 Chisel 3.10 Screw driver (Philips and flat) 3.11 Level hose/ level bar 3.12 Pull push rule/ steel tape/ laser meter 3.13 Nylon string 3.14 Plumb bob 3.15 Steel square/Carpenter's square 3.16 Sand paper 3.17 Circular saw / jig saw with vacuum 3.18 Cross cut saw 3.19 Rip saw 3.20 Electric drill with bits 3.21 Planer

EVIDENCE GUIDE

Critical aspects of Competency	Assessment requires evidence that the candidate: 1.1 Prepared materials and tools consistent with job requirements 1.2 Assembled wooden cabinet based on working drawings. 1.3 Laid-out location 1.4 Placed wooden cabinet according to job requirements 1.5 Performed housekeeping 1.6 Observed and complied with safety and environmental regulations 1.7 Communicated with others to ensure effective work operation 1.8 Observed and complied with the productivity requirements 1.9 Complied with attitudinal work requirements
2. Resource implications	The following resources should be provided: 2.1 Actual or simulated workplace 2.2 Tools, materials and equipment needed to perform the required tasks 2.3 References and manuals 2.4 PPE 2.5 First Aid Kit
3. Method of assessment	Competency in this unit may be assessed through: 3.1 Demonstration/Observation with Oral Questioning
4. Context for assessment	4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

SECTION 3 TRAINING ARRANGEMENTS

These standards are set to provide technical and vocational education and training (TVET) providers with information and other important requirements to consider when designing training programs for **CARPENTRY NC II.**

They include information on curriculum design; training delivery; trainee entry requirements; tools and equipment; training facilities; and trainer's qualification.

3.1 CURRICULUM DESIGN

TESDA shall provide the training on the development of competency-based curricula to enable training providers develop their own curricula with the components mentioned below.

Delivery of knowledge requirements for the basic, common and core units of competency specifically in the areas of mathematics, science/technology, communication/language and other academic subjects shall be contextualized. To this end, TVET providers shall develop a Contextual Learning Matrix (CLM) to accompany their curricula.

Course Title: CARPENTRY NC II

Nominal Training Duration: 37 Hours Basic Competencies

24 Hours Common Competencies

240 Hours Core Competencies

Total 301 Hours

Course Description:

This course is designed to provide the learner with knowledge, practical skills and attitude, applicable in performing work activities involve in performing tasks such as layout reference lines, fabricate, install and remove wooden formworks, install wooden door jamb, window frame and panels, install ceiling and wall frames and panels, fabricate and install wooden stairs, install wooden floor supports and panels, fabricate and install roofing system and fabricate and install wooden cabinet. This includes classroom learning activities and practical work in actual work site or simulation area.

Upon completion of the course, the learners are expected to demonstrate the abovementioned competencies to be employed. To obtain this, all units prescribed for this qualification must be achieved.

BASIC COMPETENCIES (37 HOURS)

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
Participate in workplace communication	1.1. Obtain and convey workplace information	 Describe Organizational policies Read: Effective communication Written communication Communication procedures and systems Identify: Different modes of communication Medium of communication Flow of communication Available technology relevant to the enterprise and the individual's work responsibilities Prepare different Types of question Gather different sources of information Apply storage system in establishing workplace information Demonstrate Telephone courtesy 	 Group discussion Lecture Demonstration 	Oral evaluation Written examination Observation	2 hours
	1.2. Perform duties following workplace instructions	 Read: Written notices and instructions Workplace interactions and procedures Read instructions on work related forms/documents Perform workplace duties scenario following workplace instructions 	 Group discussion Lecture Demonstration	Oral evaluation Written examination Observation	2 hours

Unit of Competency Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
1.3. Complete relevant work related documents	 Describe Communication procedures and systems Read: Meeting protocols Nature of workplace meetings Workplace interactions Barriers of communication Read instructions on work related forms/documents Practice: Estimate, calculate and record routine workplace measures Basic mathematical processes of addition, subtraction, division and multiplication Demonstrate office activities in: workplace meetings and discussions scenario Perform workplace duties scenario following simple written notices Follow simple spoken language Identify the different Non-verbal communication Demonstrate ability to relate to people of social range in the workplace Gather and provide information in response to workplace requirements Complete work related documents 	 Group discussion Lecture Demonstration Role play 	 Oral evaluation Written examination Observation 	2 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
2. Work in a team environment	2.1 Describe team role and scope	 Discussion on team roles and scope Participate in the discussion: Definition of Team Difference between team and group Objectives and goals of team Locate needed information from the different sources of information 	Lecture/ DiscussionGroup WorkIndividual WorkRole Play	Role PlayCase StudyWritten Test	1 hour
	2.2 Identify one's role and responsibility within team	 Role play: individual role and responsibility Role Play Understanding Individual differences Discussion on gender sensitivity 	Role Play Lecture/ Discussion	Role PlayWritten Test	1 hour
	2.3 Work as a team member	 Participate in group planning activities Role play: Communication protocols Participate in the discussion of standard work procedures and practices 	●Group work ●Role Play ●Lecture/ Discussion	Role PlayWritten Test	1 hour
3. Solve/address routine problems	3.1 Identify routine problems	 Review of the current industry hardware and software products and services Identify correctly the industry maintenance, service and helpdesk practices, processes and procedures Make use of the industry standard diagnostic tools Share best practices in determining basic malfunctions and resolutions to general problems in the workplace Analyze routine/procedural problems 	Group discussion Lecture Demonstration Role playing	Case Formulation Life Narrative Inquiry (Interview) Standardized test	1 hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	3.2 Look for solutions to routine problems	 Review of the current industry hardware and software products and services Identify correctly the industry maintenance, service and helpdesk practices, processes and procedures Make use of the industry standard diagnostic tools Share best practices in determining basic malfunctions and resolutions to general problems in the workplace Formulate possible solutions to problems and document procedures for reporting 	●Group discussion ■Lecture ■Demonstration ■Role playing	Case Formulation Life Narrative Inquiry (Interview) Standardized test	1 hour
	3.3 Recommend solutions to problems	Discuss standard operating procedures and documentation processes	●Group discussion●Lecture●Demonstration●Role playing	 Case Formulation Life Narrative Inquiry (Interview) Standardized test 	1 hour
4. Develop Career and Life Decisions	4.1 Manage one's emotion	 Demonstrate self-management strategies that assist in regulating behavior and achieving personal and learning goals Explain enablers and barriers in achieving personal and career goals Identify techniques in handling negative emotions and unpleasant situation in the workplace such as frustration, anger, worry, anxiety, etc. Manage properly one's emotions and recognize situations that cannot be changed and accept them and remain 	 Discussion Interactive Lecture Brainstorming Demonstration Role-playing 	 Demonstration or simulation with oral questioning Case problems involving workplace diversity issues 	1 hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
		 Professional Recall instances that demonstrate self-discipline, working independently and showing initiative to achieve personal and career goals Share experiences that show confidence, and resilience in the face of setbacks and frustrations and other negative emotions and unpleasant situations in the workplace 			
	4.2 Develop reflective practice	 Enumerate strategies to improve one's attitude in the workplace Explain Gibbs' Reflective Cycle/Model (Description, Feelings, Evaluation, Analysis, Conclusion, and Action plan) Use basic SWOT analysis as self-assessment strategy Develop reflective practice through realization of limitations, likes/ dislikes; through showing of self-confidence Demonstrate self-acceptance and being able to accept challenges 	 Small Group Discussion Interactive Lecture Brainstorming Demonstration 5 Role-playing 	 Demonstration or simulation with oral questioning Case problems involving workplace diversity issues 	1 hour
	4.3 Boost self- confidence and develop self- regulation	 Describe the components of self-regulation based on Self-Regulation Theory (SRT) Explain personality development concepts Cite self-help concepts (e. g., 7 Habits by Stephen Covey, transactional analysis, psycho-spiritual concepts) Perform effective communication skills – reading, writing, conversing skills Show affective skills – flexibility, 	 Small Group Discussion Interactive Lecture Brainstorming Demonstration Role-playing 	Demonstration or simulation with oral questioning Case problems involving workplace diversity issues	1 hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
		adaptability, etc.Determine strengths and weaknesses			
5. Contribute to workplace innovation	5.1 Identify opportunities to do things better	 Identify different roles of individuals in contributing to doing things better in the workplace Appreciate positive impacts and challenges in innovation Show mastery of the different types of changes and levels of participation in the workplace Discuss 7 habits of highly effective people 	•Interactive Lecture •Appreciative Inquiry •Demonstration •Group work	Psychological and behavioral Interviews Performance Evaluation Life Narrative Inquiry Review of portfolios of evidence and third-party workplace reports of onthe-job performance. Standardized assessment of character strengths and virtues applied	1 hour
	5.2 Discuss and develop ideas with others	 Identify different roles of individuals in contributing to doing things better in the workplace Appreciate positive impacts and challenges in innovation Show mastery of the different types of 	•Interactive Lecture •Appreciative Inquiry •Demonstration •Group work	 Psychological and behavioral Interviews Performance Evaluation Life Narrative 	1 hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
		 workplace Discuss 7 habits of highly effective people Communicate ideas through small group discussions and meetings 		 Review of portfolios of evidence and third-party workplace reports of onthe-job performance. Standardized assessment of character strengths and virtues applied 	
	5.3 Integrate ideas for change in the workplace	 Identify different roles of individuals in contributing to doing things better in the workplace Appreciate positive impacts and challenges in innovation Show mastery of the different types of changes and levels of participation in the workplace Discuss 7 habits of highly effective people Communicate ideas through small group discussions and meetings Demonstrate basic skills in data analysis 	•Interactive Lecture •Appreciative Inquiry •Demonstration •Group work	 Psychological and behavioral Interviews Performance Evaluation Life Narrative Inquiry Review of portfolios of evidence and third-party workplace reports of onthe-job performance. Standardized assessment of character strengths and 	1 hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
				virtues applied	
6. Present relevant information	6.1 Gather data/ information	Lecture and discussion on: Organisational protocols Confidentiality and accuracy Business mathematics and statistics Legislation, policy and procedures relating to the conduct of evaluations Reviewing data/ information	Group discussion Lecture Demonstration Role Play	Oral evaluationWritten TestObservationPresentation	2 Hours
	6.2 Assess gathered data/ information	 Lecture and discussion on: Data analysis techniques/ procedures Organisational values, ethics and codes of conduct Trends and anomalies Computing business mathematics and statistics Application of data analysis techniques 	 Group discussion Lecture Demonstration Role Play Practical exercises 	Oral evaluationWritten TestObservationPresentation	3 Hours
	6.3 Record and present information	 Lecture and discussion on: Reporting requirements to a range of audiences Recommendations for possible improvements Analysis and comparison of interim and final reports' outcomes Reporting of data findings 	Group discussion Lecture Demonstration Role Play Practical exercises	Oral evaluationWritten TestObservationPresentation	3 Hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
7. Practice Occupational Safety And Health Policies And Procedures	7.1 Identify OSH compliance requirements	 Discussion regarding: Hierarchy of Controls Hazard Prevention and Controls Work Standards and Procedures Personal Protective Equipment 	LectureGroup Discussion	Written ExamemonstrationObservationInterviews / Questioning	1 hour
	6.1 Prepare OSH requirements for compliance	 Identification of required safety materials, tools and equipment Handling of safety control resources 	LectureGroupDiscussion	Written ExamDemonstrationObservationInterviews / Questioning	1 hour
	6.2 Perform tasks in accordance with relevant OSH policies and procedures	 Discussion of General OSH Standards and Principles Performing industry related work activities in accordance with OSH Standards 	LectureGroup Discussion	Written ExamDemonstrationObservationInterviews / Questioning	2 hours
8. Exercise Efficient and Effective Sustainable Practices in the Workplace	8.1 Identify the efficiency and effectiveness of resource utilization	 Discussion on the process how Environmental Policies coherence is achieved Discussion on Necessary Skills in response to changing environmental policies needs Waste Skills Energy Skills Water Skills Building Skills Transport Skills Material Skills 	 Lecture Group Discussion Simulation Demonstration 	 Written Exam Demonstration Observation Interviews / Questioning 	1 hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	8.2 Determine causes of inefficiency of resource utilization	 Discussion of Environmental Protection and Resource Efficiency Targets Analysis on the Relevant Work Procedure 	LectureGroup DiscussionDemonstration	Written ExamDemonstrationObservationInterviews / Questioning	1 hr
	8.3 Convey inefficient and ineffective environmental practices	 Identification of (re)training needs and usage of environment friendly methods and technologies Identification of environmental corrective actions Practicing Environment Awareness 	LectureGroup DiscussionRole PlayDemonstration	Written ExamDemonstrationObservationInterviews / Questioning	1 hour
9. Practice Entrepreneurial Skills in the Workplace	9.1 Apply entrepreneurial workplace best practices	 Case studies on Best entrepreneurial practices Discussion on Quality procedures and practices Case studies on Cost consciousness in resource utilization 	Case Study Lecture/Discussion	Case StudyWritten TestInterview	1 hour
10.	9.2 Communicate entrepreneurial workplace best practices	Discussion on communicating entrepreneurial workplace best practices	Lecture/Discussion	Written Test Interview	1 hour
	9.3 Implement cost- effective operations	Case studies on Preservation, optimization and judicious use of workplace resources	Case Study Lecture/Discussion	Case Study Written Test Interview	2 hours

COMMON COMPETENCIES (24 HOURS)

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
Prepare construction materials and tools	1. 1 Identify materials	 Identifying tools according to the job requirements Identifying materials and accessories according to the job requirements 	Lecture- demonstrationGroup discussionPowerPoint presentation	 Demonstration with oral questioning Written examination Portfolio (credentials) 	1 Hour
	1.2 Requisition materials	Preparing material take-offRequesting materials and tools	SimulationDiscussion	Demonstration with oral questioning	1 Hour
	1.3 Receive and inspect materials	 Checking and inspecting materials and tools Storing/ stacking of tool and materials 	Practical ExerciseDemonstration	 Written / Oral Test Demonstration with oral questioning 	2 Hours
2. Observe procedures, specifications and manuals of instructions	2.1 Identify and access specification/ manuals	Identifying manuals and specificationsAccessing information and data	Lecture- demonstration	 Demonstration with oral questioning Written examination 	2 Hours
	2.2 Interpret manuals	 Interpreting symbols and specifications Accessing information and data Applying conversion of units of measurements 	Actual demonstrationGroup discussion	 Demonstration with oral questioning Written examination 	2 Hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	2.3 Apply information in manual	Applying information from manuals	DemonstrationGroup discussion	 Demonstration with oral questioning 	2 Hours
	2.4 Store Manual	Storing and maintaining manuals	DemonstrationGroup discussion	 Demonstration with oral questioning Practical and oral exam 	2 Hours
Perform mensurations and calculations	3.1 Select measuring instruments	Selecting measuring instruments	Lecture- demonstrationGroup discussion	 Demonstration with oral questioning 	2 Hours
	3.2 Carry out measurements and calculations	 Interpreting formulas for volume, areas, perimeters of plane and geometric figures Handling of measuring instruments 	 Group discussion Practical Lab Demonstration	 Written examination Third party report Demonstration with oral questioning 	2 Hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
Maintain tools and equipment	4.1 Check condition of tools and equipment	 Maintaining tools and equipment Handling of tools and equipment Identifying tools and equipment defects 	Lecture- demonstrationGroup discussion	Demonstration with oral questioning	3 Hours
	4.2 Perform basic preventive maintenance	Handling of tools and equipment Performing preventive maintenance	SimulationGroup discussionPractical LabDemonstration	 Written examination Third party report Demonstration with oral questioning 	3 Hours
	4.3 Store tools and equipment	 Storing tools and equipment Handling of tools and equipment 	DemonstrationGroup discussionPractical Lab	 Practical exam Written examination Demonstration with oral questioning 	2 Hours

CORE COMPETENCIES (240 HOURS)

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
Lay out reference lines	1.1 Prepare materials and tools	 Receiving materials and handling tools at workplace Identifying, checking and inspecting materials and tools Practicing 5S 	LectureDemonstration	Written examinationDemonstration with oral questioning	1 hour
	1.2 Locate the offset line established by the line and grade/surveyor	 Reading and understanding sketches and working drawings Locating and verifying offset line Practicing 5S 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	2 hours
	1.3 Establish the required reference lines	 Marking reference lines Measuring distance between reference and offset lines Practicing 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	4 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
Fabricate, install 2 and remove wooden formworks	2.1 Prepare materials, tools and equipment	 Receiving materials and tools at workplace Identifying, checking and inspecting materials, tools and equipment Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	1.5 hours
	2.2 Lay-out and cut dimension of form sheathing and stiffeners	 Measuring and marking dimensions of sheathing and stiffeners Cutting sheathing and stiffeners Practicing 3R and 5S 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	8 hours
	2.3 Assemble and erect form panels and components	 Fixing sheating and stiffeners Assembling form panels Erecting form panels Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	12 hours
	2.4 Erect wooden scaffolds	 Identifying types of ground condition and preparation Selecting of baseplates and or mudsill/soleplate Erecting scaffolds Practicing 3R and 5S 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	8 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	2.5 Strip form panels and dismantle scaffold	 Reading schedule of stripping Understanding dismantling procedures for form panels and scaffold Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	4 hours
	2.6 Clean and store reusable form panels and components	 Identifying and applying techniques in cleaning Identifying reusable form panels Inspecting of reusable form panels and components Practicing 3R and 5S 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	2 hours
3. Install wooden door jamb, window frame and panels	3.1 Prepare materials and tools	 Receiving materials and tools at workplace Identifying, checking and inspecting materials and tools Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	1 hour
	3.2 Layout location	 Measuring and marking dimensions Checking accuracy of measurements and markings Practicing 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	4 hours
	3.1 Fix door jamb and panels	 Holding and fixing of jamb and panel Checking squareness, levelness, plumbness and alignment Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	12 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	3.2 Fix window frames and panels	 Installing and fixing window frames and panel Checking squareness, levelness, plumbness and alignment Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	12 hours
	3.3 Perform housekeeping	Implementing 3R and 5S	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	1 hour
4. Install ceiling and wall frames and panels	4.4 Prepare materials, tools and equipment	 Receiving materials, tools and equipment at workplace Identifying, checking and inspecting materials, tools and equipment Practicing 5S 	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	1 hour
	4.5 Erect movable scaffolds or working platforms	 Identifying types of floor condition and preparation Selecting of baseplates and or mudsill/soleplate Erecting scaffolds Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	2 hours
	4.6 Layout ceiling elevation, wall location and position of framing system	 Measuring and marking dimensions and locations Checking accuracy of measurements and markings Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	4 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	4.7 Fix frames and panels	 Fixing and installing frames and panel Checking squareness, levelness, plumbness and alignment Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	16 hours
	4.8 Dismantle movable scaffolds or working platforms	 Understanding dismantling procedures for scaffolds Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	2 hours
	4.9 Perform housekeeping	Implementing 3R and 5S	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	1 hour
5. Fabricate and install wooden stairs	5.1 Prepare materials, tools and equipment	 Receiving materials, tools and equipment at workplace Identifying, checking and inspecting materials, tools and equipment Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	1.5 hours
	5.2 Erect scaffolds	 Identifying types of ground condition and preparation Selecting of baseplates and or mudsill/soleplate Erecting scaffolds Practicing 3R and 5S 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	2 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	5.3 Layout location and stair elevation	 Measuring and marking dimensions Checking accuracy of measurements and markings Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	8 hours
	5.4 Place wooden stringer, threads, handrails and baluster	 Placing wooden stringer, threads, handrails and baluster Checking squareness, levelness, plumbness and alignment Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	16 hours
	5.5 Dismantle scaffold	 Understanding dismantling procedures for scaffolds Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	2 hours
	3.6 Perform housekeeping	Implementing 3R and 5S	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	1 hour
Install wooden floor supports and panels	6.1 Prepare materials, tools and equipment	 Receiving materials, tools and equipment at workplace Identifying, checking and inspecting materials, hand tools and equipment Practicing 3R and 5S 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	1.5 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	6.2 Erect scaffolds	 Identifying types of ground condition Selecting of baseplates or concrete blocks for different types of ground surface conditions Erecting scaffolds Practicing 3R and 5S 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	2 hours
	6.3 Layout floor elevation, location and position of framing system	 Measuring and marking dimensions and elevation Checking accuracy of measurements and markings Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	4 hours
	6.4 Place wooden floor supports and panels,	 Placing wooden floor supports, joists, bridging and panels Checking squareness, levelness, plumbness and alignment Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	20 hours
	6.5 Dismantle scaffolds	 Understanding dismantling procedures for scaffolds Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	2 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	6.6 Perform housekeeping	Implementing 3R and 5S	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	1 hour
7. Fabricate and install roofing system	7.1 Prepare materials, tools and equipment	 Receiving materials, tools and equipment at workplace Identifying, checking and inspecting materials, tools and equipment Practicing 3R and 5S 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	1.5 hours
	7.2 Erect scaffolds	 Identifying types of ground condition Selecting of baseplates or concrete blocks for different types of ground surface conditions Erecting scaffolds Practicing 3R and 5S 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	2 hours
	7.3 Layout truss location and elevation	 Measuring and marking dimensions and elevation Checking accuracy of measurements and markings Practicing 5S 	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	4 hours

7.4 Assemble wooden roof truss	 Fabricating wooden roof truss assembly Checking squareness, levelness, plumbness and alignment 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	16 hours
7.5 Place wooden roof truss assembly, purlins and fascia board	 Practicing 3R and 5S Placing wooden roof truss assembly, purlins and fascia board Checking squareness, levelness, plumbness and alignment Practicing 3R and 5S 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	24 hours
7.6 Place roofing sheets and accessories	 Placing roofing sheets and accessories Checking squareness, levelness, plumbness and alignment Practicing 3R and 5S 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	8 hours
7.7 Dismantle scaffolds	 Understanding dismantling procedures for scaffolds Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	2 hours
7.8 Perform housekeeping	Implementing 3R and 5S	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	1 hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
8. Fabricate and install wooden cabinet	8.1 Prepare materials and tools	 Receiving materials and tools at workplace Identifying, checking and inspecting materials and tools Practicing 3R and 5S 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	1 hour
	8.2 Assemble wooden cabinet	 Assembling wooden cabinet Checking squareness, levelness, plumbness and alignment Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	16 hours
	8.3 Layout location	 Measuring and marking dimensions Checking accuracy of measurements and markings Practicing 5S 	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	1 hour
	8.4 Place wooden cabinet	 Placing wooden cabinet Checking squareness, levelness, plumbness and alignment Practicing 3R and 5S 	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	3 hours
	8.5 Perform housekeeping	Implementing 3R and 5S	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	1 hour

3.2 TRAINING DELIVERY

- The delivery of training shall adhere to the design of the curriculum. Delivery shall be guided by the principles of competency-based TVET.
 - a. Course design is based on competency standards set by the industry or recognized industry sector; (Learning system is driven by competencies written to industry standards)
 - b. Training delivery is learner-centered and should accommodate individualized and self-paced learning strategies;
 - c. Training can be done on an actual workplace setting, simulation of a workplace and/or through adoption of modern technology.
 - d. Assessment is based in the collection of evidence of the performance of work to the industry required standards;
 - e. Assessment of competency takes the trainee's knowledge and attitude into account but requires evidence of actual performance of the competency as the primary source of evidence.
 - f. Training program allows for recognition of prior learning (RPL) or current competencies;
 - g. Training completion is based on satisfactory completion of all specified competencies not on the specified nominal duration of learning.
- 2. The competency-based TVET system recognizes various types of delivery modes, both on-and off-the-job as long as the learning is driven by the competency standards specified by the industry. The following training modalities and their variations/components may be adopted singly or in combination with other modalities when designing and delivering training programs:

2.1 Institution- Based:

- Dual Training System (DTS)/Dualized Training Program (DTP) which contain both in-school and in-industry training or fieldwork components. Details can be referred to the Implementing Rules and Regulations of the DTS Law and the TESDA Guidelines on the DTP;
- Distance learning is a formal education process in which majority of the instruction occurs when the students and instructor are not in the same place. Distance learning may employ correspondence study, audio, video, computer

technologies or other modern technology that can be used to facilitate learning and formal and non-formal training. Specific guidelines on this mode shall be issued by the TESDA Secretariat.

 The classroom-based or in-center instruction uses of learnercentered methods as well as laboratory or field-work components.

2.2 Enterprise-Based:

- Formal Apprenticeship Training within employment involving a contract between an apprentice and an enterprise on an approved apprenticeable occupation.
- Informal Apprenticeship is based on a training (and working) agreement between an apprentice and a master craftsperson wherein the agreement may be written or oral and the master craftsperson commits to training the apprentice in all the skills relevant to his or her trade over a significant period of time, usually between one and four years, while the apprentice commits to contributing productively to the work of the business. Training is integrated into the production process and apprentices learn by working alongside the experienced craftsperson.
- Enterprise-based Training- where training is implemented within the company in accordance with the requirements of the specific company. Specific guidelines on this mode shall be issued by the TESDA Secretariat.
- 2.3 Community-Based Community-Based short term programs conducted by non-government organizations (NGOs), LGUs, training centers and other TVET providers which are intended to address the specific needs of a community. Such programs can be conducted in informal settings such as barangay hall, basketball courts, etc. These programs can also be mobile training program (MTP).

3.3 TRAINEE ENTRY REQUIREMENTS

Trainees or students who wish to enter this training should possess the following requirements:

- A Holder of National Certificate Level I in Civil Works or at least Junior High School Level Completer or an Alternative Learning System (ALS) Certificate of Completion with grade 10 equivalent holder
- Can communicate both orally and in writing
- Can perform basic mathematical computation and mensuration

3.4 LIST OF TOOLS, EQUIPMENT AND MATERIALS

List of tools, equipment and materials for the training of a maximum of 25 trainees for CARPENTRY NC II are as follows:

A. (Full Qualification)

TOOLS				
QTY	DESCRIPTION			
10 pcs	Cross cut saw			
5 pcs	Rip saw (medium)			
10 pcs	Claw hammer 8 oz			
10 pcs	Claw hammer 16 oz			
10 pcs	Chalk line box			
25 pcs	Pull-push rule (5 meters)			
5 pcs	Crow bar			
10 pcs	Steel square/ Carpenter's square			
10 pcs	Tri- square			
10 pcs	Level bar (36 in.)			
5 pcs each	Screw driver (flat and Philips)			
10 pcs	Nail bag			
10 pcs	Nail Box			
10 pcs each	Chisel, 1/4", 1/2", 3/4", 2"			

	TOOLS			
QTY	DESCRIPTION			
10 pcs each	Socket wrench (19mm and 21m)			
10 pcs	Plumb bob (medium)			
10 pcs	Wood planer (2 in.)			
2 pcs	Expansive bit			
12 m	Level hose, 3/8 in diameter			
5 pcs	Riveter			
5 pcs	Tin snip			
2 pcs	Tekscrew bit (10 mm)			
1 pc	Sealant gun			
10 pcs	Adjustable wrench			

EQUIPMENT				
QTY	DESCRIPTION			
5 sets	H-frame scaffolds system and accessories			
2 units	Portable electric drill (variable speed)			
2 units	Portable electric planer			
2 sets	Circular saw/jig saw with vacuum with vacuum			

MATERIALS				
QTY	DESCRIPTION			
3 sets each	Fabricated door and window jambs assembly			
2 sets	Fabricated door panel, flushed (0.8 m x 2.1 m)			
10 sets	Nylon string (10 meters)			
25 pcs	Pencil			
6 pcs	Loose pin hinges, 4"			

MATERIALS					
QTY	DESCRIPTION				
2 kg	Finishing wire nail, 1"				
2 kg	Finishing wire nail, 1½ inches				
1 kg	Finishing wire nail, 3" inches				
2 kg	Common wire nail, 1"				
2 kg	Common wire nail, 1½ inches				
8 kg	Common wire nail, 2 inches				
8 kg	Common wire nail, 3 inches				
8 kg	Common wire nail, 4 inches				
2 sets	Pulley, 4"				
20 m	Nylon rope, 1" dia.				
2 pcs.	Bolo				

FOR ROOFING

	MATERIALS					
QTY	DESCRIPTION					
12 pcs	rough lumber 2"x4"x16'					
15 pcs	rough lumber 2"x3"x8'					
14 pcs	S2S lumber 2"x2"x10'					
2 pcs	Fascia board 1"x8"x10'					
1 pc	Gutter, gauge 24 x 16" x 8'					
1 pc	Ridge roll, gauge 24 x 16" x 8'					
2 pcs	End flashing, gauge 24 x 16" x 8'					
50 pcs	Tekscrew with neoprene rubber (for wood) 3"					
50 pcs	Umbrella nail					

MATERIALS				
QTY	DESCRIPTION			
2 pcs	Rib type roofing, gauge 26 x 4m			
4 pcs	Corrugated type roofing, gauge 26 x 8'			
1 tube	Silicon sealant			
2 pcs.	Drill bit, 1/8"			

FOR CEILING ASSEMBLY

	MATERIALS					
QTY	DESCRIPTION					
6 pcs	Plywood,1/4"x4'x8'					
12 pcs	Rough lumber, 2"x2"x8'					
5 pcs	Wood cornice,1"x3"x8'					
16 pcs.	Butt hinges					
8 pcs.	Concealed hinges					
8 pcs	Catches					
4 pcs	Cabinet door handle					
100 pcs	Blind rivets (1/8"x3/8")					
2 sets	Door knob and lock set					

FOR STAIR ASSEMBLY

MATERIALS						
QTY	QTY DESCRIPTION					
2 pcs	Wooden hand rail					
4 pcs	Wooden Baluster					
2 pcs	Wooden planks 2"x 8"x 10'					

FOR WALL ASSEMBLY

MATERIALS					
QTY	DESCRIPTION				
10 pcs	Rough lumber 2"x 2"x8'				
6 pcs	Plywood,1/4"x4'x8'				
2 pcs	Base board, 1"x4"x8'				

FOR FLOOR ASSEMBLY

MATERIALS						
QTY DESCRIPTION						
5 pcs	Rough lumber 2"x 3"x10'					
6 pcs	Rough lumber 2"x 4"x12'					
2 pcs	Rough lumber 2"x 6"x10'					
2 pcs	Marine Plywood,3/4"x4'x8'					

FOR CABINET ASSEMBLY

ON ONDIVER MODELL							
MATERIALS							
QTY	QTY DESCRIPTION						
2 pcs	Kiln Dried Plywood,3/4"x4'x8'						
1 pint	Wood glue						
4 pcs	S4S lumber (edging)1"x1/2"x8'						

PERSONAL PROTECTIVE EQUIPMENT (PPE)					
QTY	DESCRIPTION				
One per trainee	Safety shoes/ rubber boots (Trainee to provide)				
One per trainee	Proper uniform/clothing (Trainee to provide)				
One per trainee	Gloves (cotton) (Trainee to provide)				
One per trainee	Safety goggles (Trainee to provide)				
25 pcs.	Reflectorized vest				

3.5 TRAINING FACILITIES

The carpentry workshop must be of concrete structure. Based on class size of 25 students/trainees the space requirements for the teaching/learning and circulation areas are as follows:

Space Requirement	Size in Meters	Area in Sq. Meters	
Practical Training Area	15 x 18	270	
Library	4 x 5	20	
Lecture Room	8 x 6	48	
Tool Room/Storage	4 x 5	20	
Wash room/Toilet	4 x 5	20	
Circulation area	10 x 6	60	
TOTAL ARI	438		

3.4 TRAINERS' QUALIFICATION

- Holder of National TVET Trainer Certificate Level I (NTTC Level I) in CARPENTRY NC II
- Must have completed the 40-Hour Construction Safety Training Course (COSH) per Department Order No. 13 s. 1998, Guidelines Governing Occupational Safety and Health in the Construction Industry conducted by OSHC and DOLE accredited Safety Training Organizations
- Must have at least two (2) years industry experience in Civil Works and one (1) year teaching experience in Carpentry

3.5 INSTITUTIONAL ASSESSMENT

Institutional assessment is undertaken by trainees to determine their achievement of units of competency. A certificate of achievement is issued for each unit of Competency.

SECTION 4 ASSESSMENT AND CERTIFICATION ARRANGEMENTS

Competency Assessment is the process of collecting evidence and making judgments whether competency has been achieved. The purpose of assessment is to confirm that an individual can perform to the standards expected at the workplace as expressed in relevant competency standards.

The assessment process is based on evidence or information gathered to prove achievement of competencies. The process may be applied to a full qualification or employable unit(s) of competency in partial fulfillment of the requirements of the national qualification.

4.1 NATIONAL ASSESSMENT AND CERTIFICATION ARRANGEMENTS

- 4.1.1 A National Certificate (NC) is issued when a candidate has demonstrated competence in all unit/s of competency of a qualification with a promulgated Training Regulations.
- 4.1.2 A Certificate of Competency (CoC) is issued by the Authority to individuals who were assessed as competent in a single unit or cluster of related units of competency.
 - COC-1: Fabricate, install and remove of wooden formworks
 - COC-2: Install door and window assembly; install ceiling and wall system; and fabricate and install wooden cabinet
 - Layout reference lines
 - Install wooden door jamb, window frame and panels
 - Install ceiling and wall frames and panels
 - · Fabricate and install wooden cabinet

COC-3: Fabricate and install wooden stairs and install floor system and roofing system

- Layout reference lines
- Fabricate and install wooden stairs
- Install wooden floor supports and panels
- Fabricate and install wooden roofing system

- 4.1.3 Holders of valid National Certificate (NC) for BOTH Carpentry NC II AND Carpentry NC III will have their certificates automatically converted to the amended Carpentry NC II.
- 4.1.4 Holders of valid National Certificate (NC) for Carpentry NC II only **OR** Carpentry NC III only will have their certificates converted to the amended Carpentry NC II provided they present evidence of work experience of at least three (3) years.
- 4.1.5 Holders of valid Certificate of Competency (COC) under Carpentry NC II are required to undergo assessment for the amended Carpentry NC II.
- 4.1.6 Individuals wanting to be certified will have to be assessed in accordance with the requirements identified in the evidence guide of the relevant unit/s of competency.
- 4.1.7 Recognition of Prior Learning (RPL). Candidates who have gained competencies through informal training, previous work or life experiences may apply for recognition in a particular qualification through competency assessment:
- 4.1.8 The industry shall determine assessment and certification requirements for each qualification with promulgated Training Regulations: It includes the following:
 - a. entry requirements for candidates
 - b. evidence gathering methods
 - c. qualification requirements of competency assessors
 - d. specific assessment and certification arrangements as identified by industry

4.2 Competency Assessment Requisite

4.2.1 Self-Assessment Guide. The self-assessment guide (SAG) is accomplished by the candidate prior to actual competency assessment. SAG is a pre-assessment tool to help the candidate and the assessor determine what evidence is available, where gaps exist, including readiness for assessment.

This document can:

- a) Identify the candidate's skills and knowledge
- b) Highlight gaps in candidate's skills and knowledge
- c) Provide critical guidance to the assessor and candidate on the evidence that need to be presented
- d) Assist the candidate to identify key areas in which practice is needed or additional information or skills that should be gained prior
- 4.2.2 Accredited Assessment Center. Only Assessment Center accredited by TESDA is authorized to conduct competency assessment. Assessment centers undergo a quality assured procedure for accreditation before they are authorized by TESDA to manage the assessment for National Certification.
- 4.2.3 Accredited Competency Assessor. Only accredited competency assessor is authorized to conduct assessment of competence. Competency assessors undergo a quality assured system of accreditation procedure before they are authorized by TESDA to assess the competencies of candidates for National Certification.

ANNEX A

BASIC COMPETENCIES

COMPETENCY MAP - CONSTRUCTION SECTOR (Civil Works) CARPENTRY NC II

Lead workplace communication	Lead small teams	Apply critical thinking and problem-solving techniques in the workplace	Work in a diverse environment	Propose methods of applying learning and innovation in the organization	Use information systematically	Evaluate occupational safety and health work practices	Evaluate environmental work practices	Facilitate entrepreneurial skills for micro- small-medium enterprises (MSMEs)
Receive and respond to workplace communication	Work with others	Solve/address routine problems	Enhance self- management skills	Support Innovation	Access and maintain information	Follow occupational safety and health policies and procedures	Apply environmental work standards	Adopt entrepreneurial mindset in the workplace
Participate in workplace communication	Work in Team Environment	Solve/address general workplace problems	Develop career and life decisions	Contribute to workplace innovation	Present relevant information	Practice occupational safety and health policies and procedures	Exercise efficient and effective sustainable practices in the workplace	Practice entrepreneurial skills in the workplace

Utilize specialize specialized communicati on skill	Develop and lead teams	Perform higher order thinking processes and apply techniques in the workplace	Contribute to the practice of social justice in the workplace	Manage innovative work instructions	Manage and evaluate usage of information	Lead in improvement of Occupational Safety and Health Program, Policies and Procedures	Lead towards improvement of environmental work programs, policies and procedures	Sustain entrepreneu rial skills
Manage and sustain effective communicati on strategies	Manage and sustain high performing teams		Advocate strategic thinking for global citizenship	Incorporate innovation into work procedures	Develop systems in managing, and maintaining information	Manage implementation of OSH programs in the workplace	Manage implementation of environmental program in the workplace	Develop and sustain a high- performing enterprise

Prepare construction materials and tools	Observe procedures, specifications and manual of instructions	Perform mensurations and calculations	Maintain tools and equipment
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Prepare masonry materials	Perform masonry tools and equipment	Perform basic masonry works	Lay concrete hollow block for structure	Plaster wall surface
Perform basic tile setting	Perform straight-to-finish floor concreting	Rectify non-conforming concrete and masonry surfaces	Lay tiles on plain and curved surfaces for walls, floors and other application	Repair of tiles on plain and curved surfaces
Layout reference lines	Fabricate, install and remove wooden formworks	Install wooden door jamb, window frame and panels	Install ceiling and wall frames and panels	Fabricate and install wooden stairs
Install wooden floor supports and panels	Fabricate and install roofing system	Fabricate and install wooden cabinet	Install decorative moldings	Install ceiling frames and panels or acoustical ceiling
Install eaves or soffits frames and panels and vents assembly	Install partition wall and/or cladding frames and boards	Install laminate floors	Install parquet floors	Erect and dismantle support type scaffold
Handle, segregate and stack scaffolding components	Prepare pipefitting materials, tools and equipment for spool pipe connection	Install above ground piping system	Install overhead piping system	Install underground piping system
Lay tiles on plain and curved surfaces for walls, floors and other	Repair of tiles on plain and curved surfaces			

application

GLOSSARY OF TERMS

1.	Scaffold	Is a temporary structure of poles and planks providing platform for workers to stand on while erecting or repairing a structure
2.	Offset line	a line or point placed at a given distance from a control line or point used to re-establish the original location.
3.	Line and grade/Surveyor	Professionals who determines and/or established boundary lines and/or elevations of building walls, foundations, utilities, etc.
4.	Reference line	A series of two or more points or line to serve as reference for measurement
5.	Sheating	A layer of boards nailed to a stud or stiffeners to form a form panel
6.	Stiffeners	Are lumber connected to a stud where sheathings are to be fastened to
7.	Form panels and components	Are temporary boarding, sheathing or pan and form accessories used to produce the desired shape and size of concrete
8.	Door jamb	Is the vertical portion of the door frame onto which a door is secured, normally comes in set including header
9.	Door panels	A hinged or sliding rectangular panel secured to a door jamb for opening and closing the entrance to a room and/or building
10.	Window frames	Basic components are jambs, headers and sills.
11.	Window panels	Either wood, glass or other materials framed and secured to a window frames
12.	Ceiling elevation	Is the final height of the ceiling measured from the floor
13.	Ceiling Joist	The structural member in building construction where the ceiling board is fastened
14.	Wall location	Exact location where walls will be constructed

15. 16.	Position of framing system Steps elevation	Are the exact location of wall studs and noggins/braces as determined during layout Exact layout/position of the stair tread, riser and landing
17.	Wooden stringer	The inclined member supporting the treads and the risers of the stair
18.	Wooden tread	The horizontal part of a step
19.	Wooden handrails	A rail running parallel with the inclination of the stairs that holds the balusters
20.	Wooden baluster	Small posts supporting the handrail
21.	Floor elevation	Exact location of the finished flooring measured from an established reference line
22.	Wooden floor supports	Are wooden girders or stringers carrying the floor joists
23.	Wooden floor joist	Is the structural member of a building that supports the wood flooring
24.	Wooden floor panels	Are wood boards used for flooring
25.	Truss location	Exact location where truss assembly will be positioned as determined on plan
26.	Truss elevation	exact height of the truss measured from the floor line to the bottom of the chord
27.	Wooden roof truss assembly	Comprises the girts, bottom chord, rafters, collar plate, center post, strut and block
28.	Wooden purlins	Is a structural member of a roof framing system where the roofing sheets are fastened
29.	Roofing sheets and accessories	Are different types of roof coverings including ridge rolls, gutters, flashings, etc.
30.	Wooden cabinet	a box-shaped piece of furniture with doors and/or drawers for storing miscellaneous items. Some cabinets stand-alone while others are built in to a wall or are attached to it
31.	Rough Lumber	Unplaned or undressed lumber
32.	S2S and S4S	A lumber wherein the number connotes the smoothed/planed sides

33. 5S The five in a 5S workplace organizational and housekeeping methodology refers to five steps -

sort, set in order, shine, standardize and sustain.

34. 3R The principle of reducing waste, reusing and

recycling resources and products

Reduce The waste management concept of reducing what

is produced and what is consumed

Reuse The waste management concept of reusing items,

or re-purposing them for a use different than what

they are intended for

Recycling The waste management concept of transforming

again into a raw material that can be shaped into a

new item



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- Makati Development Corporation
- Saint Peregrine Institute
- TESDA-RTC Mariveles

The MEMBERS of the TESDA Board and Secretariat

The MANAGEMENT and STAFF of the TESDA Secretariat

- Qualifications and Standards Office (QSO)
- TR Development Team/Facilitators
 - Ma. Isabel G. Gamurot
 - Howard Mark N. Plete
 - Evangeline A. Cosep