

Republic of the Philippines **DEPARTMENT OF EDCUATION**



K to 12 BASIC EDUCATION CURRICULUM

TECHNOLOGY AND LIVELIHOOD EDUCATION

CURRICULUM GUIDE

Exploratory Course on CARPENTRY

INDUSTRIAL ARTS – CARPENTRY (Exploratory)

Curriculum Guide for the Exploratory Course on CARPENTRY

For you to get a complete picture of the complete TLE exploratory course on Carpentry, you are hereby provided with the Curriculum Guide on Carpentry.

Content Standard	Performance Standard	Learning Competencies	Project/ Activities	Assessment	Duration			
LESSON 1: PREPARE CONST	ESSON 1: PREPARE CONSTRUCTION MATERIALS AND TOOLS							
Demonstrate understanding of/on:								
 Types and uses of construction materials Kinds of carpentry tools Description of materials and tools Listing of materials as per company standards. 	 Tools and materials are identified as per job requirements. Tools are classified according to their functions per job requirements. Materials are classified according to their uses in a specific construction project. Tools and materials are selected per job requirement. 	LO1. Identify materials and tools applicable for a specific construction job.	Enumerating and describing the tools and materials used in carpentry works.	 Written test Performance test 	6 hours			
 Sample requisition form Requested tools and materials according to list Requisition procedures 	 Needed materials and tools are listed as per job requirement. Materials and tools are requested according to the list prepared. Requests are done as per company's standard operating 	LO2. Request appropriate materials and tools.	Fill up necessary forms as per job requirement.	Written testPerformance test	3 hours			

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	procedures (SOP). 4. Materials and tools are substituted and provided for unavailable ones without sacrificing cost and quality of work.				
 Acquire and inspect materials/tools Procedures in receiving tools and materials Proper inspection of tools and materials received. Proper handling of tools and materials. 	 Materials and tools as per quantity and specification based on requisition are received and inspected. Tools and materials are checked for damages and manufacturing defects. Materials and tools received are handled with appropriate safety devices. Materials and tools are stored in aside to appropriate locations nearest the workplace. 	LO3. Receive and inspect materials	Writing the possible defects and/or damages of materials and tools used in carpentry.	Written test Performance test	2 hours
LESSON 2: MAINTAINING TO	OOLS AND EQUIPMENT				
Demonstrate understanding of/on:					
 Classification of hand tools and equipment Procedure in segregating and labeling non- 	Tools and equipment are identified according to classification/specification and job requirements.	LO1. Check condition of tools and equipment.	Performing the actual segregation of functional and non-functional tools and equipment.	Performance testWritten test	3 hours

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functional tools and equipment. Procedure in checking condition of Personal Protective Equipment (PPE).	 Functional andnon-functional tools and equipment are segregated and labeled according to classification. Safety of tools and equipment are observed in accordance with manufacturer's instructions. Conditions of PPE are checked in accordance with manufacturer's instructions. 				
 Lubricating tools and equipment Preventive maintenance techniques and procedures Steps in filling out inspection report form 	 Lubricants are identified according to types of equipment. Tools and equipment are lubricated according to preventive maintenance schedule or manufacturer's specifications. Measuring instruments are checked and calibrated in accordance with manufacturer's instructions. Tools are cleaned and lubricated according to standard procedures. Defective equipment and tools are inspected and replaced according to manufacturer's specification. 	LO2. Perform basic preventive maintenance.	Performing the proper selection and application of lubricants used for preventive maintenance.	Written test Performance test	4 hours

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	Work place is cleaned and kept in safe state in line with OSHC regulations				
LESSON 3: PERFORM MENS	URATION AND CALCULATION				
Demonstrate understanding of/on:					
 Types of Measuring tools Proper handling of measuring instruments Linear measurement for 6 faces lumber 	 Measuring tools are selected/identified as per object to be measured or job requirements. Correct specifications are obtained from relevant sources. Measuring instruments are selected according to job requirements. Alternative measuring tools are used without sacrificing cost and quality of work. Measurements are obtained according to job requirements. 	LO1. Select measuring instruments.	Demonstrating the proper handling of measuring tools.	 Actual demonstration Direct observation Written test/questioning 	2 hours
 Systems of measurement Reading of measuring instrument/tools Converting fraction to decimal 	6. Accurate measurements are obtained according to job requirements.7. Work pieces are measured according to job requirements	LO2. Carry out measurement and calculations.	Measuring lengths, width, and thickness of pieces of wood.	Written TestPerformance Test	4 hours

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 Converting units of measure Taking Dimensions Calculating boardfoot of lumber 					
LESSON 4: INTERPRETING	DRAWINGS AND PLANS			1	1
Demonstrate understanding of/on: Drawing symbols and signs Uses of alphabet of lines	 Signs, symbols, and data are identified according to job specifications. Signs, symbols, and data are determined according to classification or 	LO1. Analyze signs, symbols, and data.	Drawing and describing the different signs and symbols used in the project plans.	Written testPerformance test	4 ho urs
interpret simple isometric drawing of center table	classification or appropriateness in drawing. 1. Necessary tools, materials, and equipment are identified according to the plan. 2. Components, assemblies or object are recognized as per job requirement. 3. Dimensions and specifications are identified according to job requirements.	LO2. Interpret technical drawings and plans.	Explaining the specific uses of lines in the drawing.	 Performance test Written test 	2 hours

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 Procedure in sketching isometric box Steps in sketching orthographic drawing 	Correct freehand sketching is produced in accordance with the job requirements	LO3.Apply freehand sketching	Demonstrating freehand sketching	Performance testWritten test	
LESSON 5: PRACTICING OC	CUPATIONAL HEALTH AND SAFE	TY PROCEDURES		1	1
Demonstrate understanding of/on:					
 Hazards and risks identification and control Working condition that can produce hazards Signs, signals and barricades Accidents prevention signs and tags 	 Workplace hazards and risks are identified and clearly explained. Hazards/risks and their corresponding indicators are identified in accordance with the company procedures. Contingency measures are recognized and established in accordance with organizational procedures. 	LO1. Identify hazards and risks.	Listing down the possible hazards and risks common in the workplace.	 Performance test Written test 	
Safety regulations PPE and uses	OHS procedures for controlling hazards and risks are strictly followed.	LO2. Control hazards and risks.	Writing the importance of knowing the hazardous and risky objects/fixtures	Written testPerformance test	4 hours

Content Standard	Performance Standard	Learning Competencies	Project/ Activities	Assessment	Duration
 Occupational health and safety (OHS) procedure in controlling hazards and risks Procedure in dealing with workplace, accidents, fire and emergencies Role playing creating a team and audience judges on planning and controlling risk and hazards 	 Procedures in dealing with workplace accidents, fire, and emergencies are followed in accordance with the organization's OHS policies. Personal protective equipment (PPE) is correctly used in accordance with organization's OHS procedures and practices. Procedures in providing appropriate assistance in the event of workplace emergencies are identified in line with the established organizational protocol. 		in the workplace.		
 What is 5's How to practice 5's What an individual gain from 5's A healthy shop is a safe shop 	 Procedures in emergency related drill are strictly followed in line with the established organizational guidelines and procedures. OHS personal records are filled up in accordance with workplace requirement PPEs are maintained in line with organizational guidelines and procedures. 	LO3. Maintain occupational health and safety awareness.	Explain the advantages of practicing safety precautions in the work area.	 Written test Performance test 	3 hours
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"By three methods we may learn wisdom: First, by reflection, which is noblest; second, by imitation, which is easiest; and third by experience, which is the bitterest."

- Confucius