

Republic of the Philippines **DEPARTMENT OF EDCUATION**



K to 12 BASIC EDUCATION CURRICULUM

TECHNOLOGY AND LIVELIHOOD EDUCATION

CURRICULUM GUIDE

Exploratory Course on TILES SETTING

INDUSTRIAL ARTS – TILES SETTING (Exploratory)

Curriculum Guide for the Exploratory Course on Tiles Setting

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

Content Standard	Performance Standard	Learning Competencies	Project/ Activities	Assessment	Duration
LESSON 1:PREPARE CONS	TRUCTION MATERIALS AND TOO	LS			•
Demonstrate understanding of/on:					
 Materials in tile setting Tools used in tile setting 	 Tools and materials are identified per job requirements Tools are classified according to their functions per job requirements. Materials are classified according to their uses for specific construction project. Tools and materials are selected per job requirement. 	LO1. Identify materials and tools applicable to a specific job	 List down the materials needed in tile setting. Use tile setting tools properly 	 Direct observation Written test/questioning 	3 hours
 Accomplishing different forms like job order slips, tools and materials requisition slips, and borrower's slips Following accurate requisition procedures Schematic Diagram 	 Needed materials and tools are listed per job requirement. Materials and tools are requested according to the prepared list. Requests are done per company's standard operating procedures (SOP). Materials and tools are 	LO2. Receive and inspect materials	Accomplish different forms needed in requisitioning, receiving, borrowing and inspecting tile setting materials	 Oral questioning Direct observation Written test 	2 hours

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	provided and unavailable ones substituted without sacrificing cost and quality of work.					
LESSON 2: PERFORMING	MENSURATIONS AND CALCULA	TIONS	I	I		
Demonstrate understanding of/on:						
 Kinds of Measurements English Metric Measurements Conversions from English to metric and vice versa 	 Calculation needed to complete work tasks are performed using the four basic processes of addition (+), subtraction(-), multiplication (x) and division (/) including but not limited to: Trigonometric functions and Algebraic computations. Calculations involving fractions, percentages, and mixed numbers are used to complete workplace tasks. Numerical computations are self-checked and corrected for accuracy. Accurate measurements are obtained according to job requirements. Systems of measurements are identified and converted 	LO1.Carry out measurement s and calculations	1. Making simple computations using the four fundamental operations 3. Measuring the lengths, width and thickness of some pieces of ceramic tile and wood which will be presented in the class. 4. Role play	 Oral questioning Direct observation Written test 	4 hours	

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	according to job requirements 6. Work pieces are measured according to job requirements.					
 Select measuring tools Visualizing objects and shapes specifically geometric shapes. Measuring Instruments/Measuring Tools 	 Objects or components to be measured are identified, classified, and interpreted according to the appropriate regular geometric shapes. Measuring tools are selected/identified per object to be measured or according to 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. 	LO2. Select Measuring Instrument	Identify shapes of tiles	 Actual demonstration Direct observation Written test/ questioning 	4 hours	

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LESSON 3: INTERPRETING	G TECHNICAL DRAWINGS AND P	PLANS			
 Demonstrate understanding of/on: Drawing symbols and signs according to job specifications Alphabet of line Ways of drawing different types of lines 	 Signs, symbols, and data are identified according to job specifications. Signs, symbols and data are determined according to classification or as appropriateness in drawing. 	LO1 Read/Interpret blueprints and plans	 Enumerate the lines necessary in making working drawing. Perform proper strokes in drawing different types of line. 	3. Demonstration4. Direct observation5. Writtentest/ques tioning	3 hours
 Basic technical drawing Freehand sketching Five general uses of freehand sketching schematic diagram and illustration 	 Necessary tools, materials and equipment are identified according to the plan. Components, assemblies or objects are recognized per job requirement. Dimensions and specifications are identified according to job requirements. Freehand sketch is produced in accordance with job requirements. 	LO2. Perform freehand sketching	Make a sketch of an area of four feet long and four feet wide to be tiled with 4 by 4 tiles.	 Practical application/ performance test Written test/ questioning 	3hours

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LESSON 4: MAINTAINING T	OOLS AND EQUIPMENT				
Demonstrate understanding of/on:					
 Types of Tools and Equipment Classification of functional and nonfunctional tools Uses of Personal Protective Equipment (PPE). 	 Tools and equipment are identified according to classification/specification and job requirements. Functional and non-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. 	LO1. Check condition of tools and equipment	Enumerate the conditions of tools and equipment that needs maintenance or repair.	 Oral questioning Direct observation Written test 	6hours
 Types and uses of lubricants Types and uses of cleaning materials/solvent OSHC workplace regulations (General precaution) 	 Lubricants are identified according to types of equipment. Tools and equipment are lubricated according to preventive maintenance schedule or manufacturer's specifications. 	LO2. Perform basic preventive maintenanc e.	Explain the importance of lubricants in tool and equipment maintenance. Perform lubrication of tools	 Oral questioning Direct observation Written test 	3 hours

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	 Tools are cleaned and lubricated according to standard procedures. Defective equipment and tools are inspected and replaced according to manufacturer's specification. Work place is cleaned and kept in safe state in line with OSHC regulations. 					
 Inventory of tools and equipment Tools and equipment handling Tool safe-keeping/storage 	 Inventory of tools, instruments, and equipment are conducted and recorded per company practices. Tools are inspected and stored after use. Tools and equipment are stored safely in accordance with manufacturer's specifications or company procedures. 	LO3. Store tools and equipment.	Explain the disadvantages of improper storing of tools and equipment.	 Practical examination Direct observation Written test/questioning 	2 hours	

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LESSON 5: PRACTICE OC	CUPATIONAL HEALTH AND SAFE	TY PROCEDURES					
Demonstrate understanding of/on: Threshold limit values (TLV) TLV table Philippine OHS standards Hazardous occupations to young workers Effects of hazards in the workplace Ergonomics ECC regulations	 Terms of maximum tolerable limits are identified based on threshold limit value (TLV). Effects of hazards are determined. OHS issues and concerns are identified in accordance with workplace requirements. Requirements and relevant workplace OHS legislation. 	LO1. Evaluate hazards and risks	Identify known hazards and risks in the workplace.	 Interview Written examination Simulation 	2 hours		
 Safety regulations Clean air act in relation to tile setting Electrical and fire safety code Waste management Disaster preparedness and management Contingency measures and procedures 	 OHS procedures for controlling hazards and risks are strictly followed. 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. 	LO2. Control hazards and risks.	 Demonstrate proper use of PPEs. Perform waste segregations 	 Written examination Interview 	2 hours		

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	4. Procedures in providing appropriate assistance in the event of workplace emergencies are identified in line with the established organizational protocol.				
 Operational health and safety procedure, practices and regulations 5S Emergency-related drills and training 	 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 requirements. PPE are maintained in line with organization guidelines and procedures. 	LO3. Maintain occupational health and safety awareness	Make reaction papers about the emergency drills undertaken in the schools such as fire drill and earthquake drill Role play	 Demonstration Interview Written examination 	4hours
					40 hrs.

"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