

K to12 BASIC EDUCATION CURRICULUM
JUNIOR HIGH SCHOOL TECHNOLOGY AND LIVELIHOOD EDUCATION AND SENIOR HIGH SCHOOL TECHNICAL-VOCATIONAL-LIVELIHOOD TRACK
INDUSTRIAL ARTS – TILE SETTING (NC II)
(160 hours)

These are the specializations and their pre-requisites. These lists should be used as reference for curriculum maps.

AGRI-FISHERY ARTS

	Specialization	Number of Hours	Pre-requisite
1.	Agricultural Crops Production (NC I)	320 hours	
2.	Agricultural Crops Production (NC II) <i>updated based on TESDA Training Regulations published December 28, 2013</i>	640 hours	
3.	Agricultural Crops Production (NC III)	640 hours	Agricultural Crops Production (NC II)
4.	Animal Health Care Management (NC III)	320 hours	Animal Production (Poultry-Chicken) (NC II) or Animal Production (Ruminants) (NC II) or Animal Production (Swine) (NC II)
5.	Animal Production (Poultry-Chicken) (NC II) <i>updated based on TESDA Training Regulations published December 28, 2013</i>	320 hours	
6.	Animal Production (Large Ruminants) (NC II) <i>updated based on TESDA Training Regulations published December 28, 2013</i>	320 hours	
7.	Animal Production (Swine) (NC II) <i>updated based on TESDA Training Regulations published December 28, 2013</i>	320 hours	
8.	Aquaculture (NC II)	640 hours	
9.	Artificial Insemination (Large Ruminants) (NC II)	160 hours	Animal Production (Large Ruminants) (NC II)
10.	Artificial Insemination (Swine) (NC II)	160 hours	Animal Production (Swine) (NC II)
11.	Fish Capture (NC II)	640 hours	
12.	Fishing Gear Repair and Maintenance (NC III)	320 hours	
13.	Fish-Products Packaging (NC II)	320 hours	
14.	Fish Wharf Operation (NC I)	160 hours	
15.	Food Processing (NC II)	640 hours	
16.	Horticulture (NC III)	640 hours	Agricultural Crops Production (NC II)
17.	Landscape Installation and Maintenance (NC II)	320 hours	
18.	Organic Agriculture (NC II)	320 hours	
19.	Pest Management (NC II)	320 hours	
20.	Rice Machinery Operations (NC II)	320 hours	
21.	Rubber Processing (NC II)	320 hours	
22.	Rubber Production (NC II)	320 hours	
23.	Slaughtering Operations (Hog/Swine/Pig) (NC II)	160 hours	

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HOME ECONOMICS

	Specialization	Number of Hours	Pre-requisite
1.	Attractions and Theme Parks Operations with Ecotourism (NC II)	160 hours	
2.	Barbering (NC II)	320 hours	
3.	Bartending (NC II)	320 hours	
4.	Beauty/Nail Care (NC II)	160 hours	
5.	Bread and Pastry Production (NC II)	160 hours	
6.	Caregiving (NC II)	640 hours	
7.	Commercial Cooking (NC III)	320 hours	Cookery (NC II)
8.	Cookery (NC II)	320 hours	
9.	Dressmaking (NC II)	320 hours	
10.	Events Management Services (NC III)	320 hours	
11.	Fashion Design (Apparel) (NC III)	640 hours	Dressmaking (NC II) or Tailoring (NC II)
12.	Food and Beverage Services (NC II) <i>updated based on TESDA Training Regulations published December 28, 2013</i>	160 hours	
13.	Front Office Services (NC II)	160 hours	
14.	Hairdressing (NC II)	320 hours	
15.	Hairdressing (NC III)	640 hours	Hairdressing (NC II)
16.	Handicraft (Basketry, Macrame) (Non-NC)	160 hours	
17.	Handicraft (Fashion Accessories, Paper Craft) (Non-NC)	160 hours	
18.	Handicraft (Needlecraft) (Non-NC)	160 hours	
19.	Handicraft (Woodcraft, Leathercraft) (Non-NC)	160 hours	
20.	Housekeeping (NC II) <i>updated based on TESDA Training Regulations published December 28, 2013</i>	160 hours	
21.	Local Guiding Services (NC II)	160 hours	
22.	Tailoring (NC II)	320 hours	
23.	Tourism Promotion Services (NC II)	160 hours	
24.	Travel Services (NC II)	160 hours	
25.	Wellness Massage (NC II)	160 hours	

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INDUSTRIAL ARTS

	Specialization	Number of Hours	Pre-requisite
1.	Automotive Servicing (NC I) <i>updated based on TESDA Training Regulations published December 28, 2013</i>	640 hours	
2.	Automotive Servicing (NC II)	640 hours	Automotive Servicing (NC I)
3.	Carpentry (NC II)	640 hours	
4.	Carpentry (NC III)	320 hours	Carpentry (NC II)
5.	Construction Painting (NC II)	160 hours	
6.	Domestic Refrigeration and Air-conditioning (DOMRAC) Servicing (NC II)	640 hours	
7.	Driving (NC II)	160 hours	
8.	Electrical Installation and Maintenance (NC II)	640 hours	
9.	Electric Power Distribution Line Construction (NC II)	320 hours	Electrical Installation and Maintenance (NC II)
10.	Electronic Products Assembly and Servicing (NC II) <i>updated based on TESDA Training Regulations published December 28, 2013</i>	640 hours	
11.	Furniture Making (Finishing) (NC II)	640 hours	
12.	Instrumentation and Control Servicing (NC II)	320 hours	Electronic Products Assembly and Servicing (EPAS) (NC II)
13.	Gas Metal Arc Welding (GMAW) (NC II)	320 hours	Shielded Metal Arc Welding (SMAW) (NC II)
14.	Gas Tungsten Arc Welding (GTAW) (NC II)	320 hours	Shielded Metal Arc Welding (GMAW) (NC II)
15.	Machining (NC I)	640 hours	
16.	Machining (NC II)	640 hours	Machining (NC I)
17.	Masonry (NC II)	320 hours	
18.	Mechatronics Servicing (NC II)	320 hours	Electronic Products Assembly and Servicing (EPAS) (NC II)
19.	Motorcycle/Small Engine Servicing (NC II)	320 hours	
20.	Plumbing (NC I)	320 hours	
21.	Plumbing (NC II)	320 hours	Plumbing (NC I)
22.	Refrigeration and Air-Conditioning (Packaged Air-Conditioning Unit [PACU]/Commercial Refrigeration Equipment [CRE]) Servicing (NC III)	640 hours	Domestic Refrigeration and Air-conditioning (DOMRAC) Servicing (NC II)
23.	Shielded Metal Arc Welding (NC I)	320 hours	
24.	Shielded Metal Arc Welding (NC II)	320 hours	Shielded Metal Arc Welding (NC I)
25.	Tile Setting (NC II)	320 hours	
26.	Transmission Line Installation and Maintenance (NC II)	640 hours	Electrical Installation and Maintenance (NC II)

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INFORMATION, COMMUNICATIONS AND TECHNOLOGY (ICT)

	Specialization	Number of Hours	Pre-requisite
1.	Animation (NC II)	320 hours	
2.	Broadband Installation (Fixed Wireless Systems) (NC II)	160 hours	Computer Systems Servicing (NC II)
3.	Computer Programming (.Net Technology) (NC III) <i>updated based on TESDA Training Regulations published December 28, 2013</i>	320 hours	
4.	Computer Programming (Java) (NC III) <i>updated based on TESDA Training Regulations published December 28, 2013</i>	320 hours	
5.	Computer Programming (Oracle Database) (NC III) <i>updated based on TESDA Training Regulations published December 28, 2013</i>	320 hours	
6.	Computer Systems Servicing (NC II) <i>updated based on TESDA Training Regulations published December 28, 2007</i>	640 hours	
7.	Contact Center Services (NC II)	320 hours	
8.	Illustration (NC II)	320 hours	
9.	Medical Transcription (NC II)	320 hours	
10.	Technical Drafting (NC II)	320 hours	
11.	Telecom OSP and Subscriber Line Installation (Copper Cable/POTS and DSL) (NC II)	320 hours	Computer Systems Servicing (NC II)
12.	Telecom OSP Installation (Fiber Optic Cable) (NC II)	160 hours	Computer Systems Servicing (NC II)

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INDUSTRIAL ARTS – TILE SETTING (NC II)
(160 hours)

Course Description:

This course consists of core competencies which lead to **Tile Setting**, National Certificate Level II (NC II). It covers **laying and repairing of wall and floor tiles**. This also covers the knowledge, skills and attitudes required by a high school student to lay and repair wall and floor tiles, and tile corners.

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
Introduction 1. Core concepts in tile setting 2. Relevance of the course 3. Business opportunities 4. Career opportunities	The learner demonstrates an understanding of the basic concepts and underlying theories in tile setting.	The learner independently demonstrates an understanding of the core competencies in tile setting as prescribed by TESDA Training Regulations.	1. Explain basic concepts in tile setting 2. Discuss the relevance of the course 3. Explore career opportunities in tile setting	
LAY AND REPAIR WALL AND FLOOR TILES (FT)				
1. Shop mathematics 2. Technical drawing and specifications 3. Materials identifications and classifications 4. Tools and equipment 5. Manufacturer’s product specifications and instructions 6. Compliance with quality requirements, company rules and regulations 7. Types of tiles and adhesives 8. Tile surface cleaning and cutting procedures 9. Adhesive and grout mixing procedures	The learner demonstrates an understanding of the underlying principles in laying and repairing wall and floor tiles.	The learner independently lays and repairs wall and floor tiles based on job requirements.	LO 1. PLAN FOR TILING WORKS 1.1 Secure work instruction and interpret in line with job requirement 1.2 Identify tools, materials and equipment for tiling works	TLE_IATS9-12FT-Ia-j-1
			LO 2. LAY FLOOR TILES 2.1. Check area(s) to be tiled based on job requirement. 2.2. Select adhesive based on specifications, tile type and climatic condition 2.3. Clean surface from residue and protrusions 2.4. Cut tiles according to required specifications 2.5. Mix adhesives following manufacturer’s instructions. 2.6. Lay-out tiles according to specifications. 2.7. Mix and apply grout to clean joints and surface according to instructions 2.8. Clean finished tile work according to instructions 2.9. Perform proper housekeeping (5S) 2.10. Observe safety precautions	TLE_IATS9-12FT-Ia-j-2

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INDUSTRIAL ARTS – TILE SETTING (NC II)

(160 hours)

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
10. Tile laying procedures and techniques 11. Procedure in installing wall tiles 12. Tile alignment techniques 13. Cement and grout mixing preparation and application 14. Tile finishing procedures 15. Procedure in installing wall tiles 16. Tile alignment techniques 17. Cement and grout mixing preparation and application 18. Procedures in removing old tiles 19. Procedures in fitting new tiles 20. Housekeeping practices			<p>LO 3. INSTALL WALL TILES 3.1. Apply cement or cement based adhesive to tile / wall surface according to instructions 3.2. Install tiles to set level alignment 3.3. Check joint alignment and surface for straightness and flatness 3.4. Cut tiles according to required specifications 3.5. Install special pre-cut tile to create a square corner in accordance with specifications 3.6. Lay-out vertical tiles according to squareness 3.7. Fix paper-faced or mesh-backed mosaic tiles to background with tile adhesive 3.8. Maintain grout spaces in straight and uniform width 3.9. Maintain expansion gaps following specifications 3.10. Clean tiled surface 3.11. Perform Housekeeping</p> <p>LO 4. REPAIR TILE WORKS 4.1. Remove damaged tile and clear old bedding 4.2. Perform repair of tiles 4.3. Apply grout following instruction 4.4. Clean excess grout 4.5. Clean tile surface 4.6. Perform housekeeping</p>	<p>TLE_IATS9-12FT-Ia-j-3</p> <p>TLE_IATS11FT-IIa-j-4</p>
TILE CORNERS (TC)				
1. Plan and prepare for work 2. Measurements and trade mathematics 3. Technical drawings and plans specifications	The learner demonstrates an understanding of the concepts and underlying principles in laying tiles on corners of a wall.	The learner independently lays tiles on the corners of a wall based on job requirements.	<p>LO 1. LAY / INSTALL TILE INTERNAL CORNERS 1.1. Secure work instruction and interpret layout 1.2. Secure tools, materials and equipment</p>	TLE_IATS9-12TC-IIIa-j-1

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INDUSTRIAL ARTS – TILE SETTING (NC II)
(160 hours)

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
<ul style="list-style-type: none"> 4. Procedures for tiling internal corners 5. Occupational health and safety standards 6. Company rules and regulations 7. Quality of tile material 			<ul style="list-style-type: none"> 1.3. Check internal corners for flatness of surfaces and straightness of grout lines 1.4. Fit and cut the required tiles 1.5. Install to one wall and maintain alignment 1.6. Make joints for butting tiles in accordance with designed margin for grouting or for expansion joint when applicable 1.7. Trim and finish alignment of tiles specifications 1.8. Clean tiled surface 1.9. Perform housekeeping 	
<ul style="list-style-type: none"> 8. Measurements and trade mathematics 9. Technical drawings and plans specifications 10. Procedures for tiling external corners 11. Occupational health and safety standards 12. Company rules and regulations 13. Quality of material tile 			<p>LO 2. LAY / INSTALL TILE EXTERNAL CORNERS</p> <ul style="list-style-type: none"> 2.1. Check tiles for specified tolerance based on plumbness and levelness 2.2. Check external corners for flatness of surfaces and straightness of grout line 2.3. Install tile trim on both sides of the corner 2.4. Install tiles without voids in tile bed according to specifications 2.5. Maintain corners, square and finished to specifications 2.6. Clean tiled surface according to specifications 2.7. Perform Housekeeping 	<p>TLE_IATS9-12TC-IVa-j-2</p>

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INDUSTRIAL ARTS – TILE SETTING (NC II)
(160 hours)

Course Description:

This course consists of core competencies which lead to **Tile Setting**, National Certificate Level II (NC II). It covers **tile corners and curved surfaces**. This also covers the knowledge, skills and attitudes required of a high school student to lay and repair wall and floor tiles, and tile corners.

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
Introduction 1. Core concepts in tile setting 2. Relevance of the course 3. Business opportunities 4. Career opportunities	The learner demonstrates an understanding of the basic concepts and underlying theories in tile setting.	The learner independently demonstrates an understanding of the core competencies in tile setting as prescribed by TESDA Training Regulations.	1. Explain basic concepts in tile setting 2. Discuss the relevance of the course 3. Explore career opportunities in tile setting	
TILE CORNERS (TC)				
1. Plan and prepare for work 2. Measurements and trade mathematics 3. Technical drawings and plans specifications 4. Procedures for tiling internal corners 5. Occupational health and safety standards 6. Company rules and regulations 7. Quality of tile material	The learner demonstrates an understanding of the concepts and underlying principles in laying tiles on corners of a wall.	The learner independently performs laying of tiles on corners of a wall based on job requirements.	LO 1. LAY / INSTALL TILE INTERNAL CORNERS 1.1. Secure work instruction and interpret layout 1.2. Secure tools, materials and equipment 1.3. Check internal corners for flatness of surfaces and straightness of grout lines 1.4. Fit and cut the required tiles. 1.5. Install to one wall and maintain alignment 1.6. Make joints for butting tiles in accordance with designed margin for grouting or for expansion joint 1.7. Trim and finish alignment of tiles based on specifications 1.8. Clean tiled surface 1.9. Perform housekeeping	TLE_IATS9-12TC-Ia-j-1

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(160 hours)

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
<ul style="list-style-type: none"> 8. Measurements and trade mathematics 9. Technical drawings and plans specifications 10. Procedures for tiling external corners 11. Occupational health and safety standards 12. Company rules and regulations 13. Quality of material tile 			<p>LO 2. LAY / INSTALL TILE EXTERNAL CORNERS</p> <ul style="list-style-type: none"> 2.1. Check tiles for specified tolerance based on plumbness and levelness 2.2. Check external corners for flatness of surfaces and straightness of grout line. 2.3. Install tile trim on both sides of the corner 2.4. Install tiles without voids in tile bed according to specifications 2.5. Maintain corners, square and finished to specifications. 2.6. Clean tiled surface according to specifications 2.7. Perform Housekeeping 	<p>TLE_IATS9-12TC-IIa-j-2</p>
TILING CURVED SURFACES (CS)				
<ul style="list-style-type: none"> 1. Measurements and trade mathematics 2. Occupational health and safety standards requirements 3. Procedures for tiling curved and floor surfaces 4. Procedures for tiling circular volume, wall and arches 5. Company standard operating procedures 	<p>The learner demonstrates an understanding of the concepts and procedures in tiling curve surfaces.</p>	<p>The learner independently tiles curved surfaces based on job requirements.</p>	<p>LO 1. LAY / INSTALL TILES ON CURVED SURFACES</p> <ul style="list-style-type: none"> 1.1. Secure work instruction and interpreted in line with job requirements 1.2. Perform housekeeping 1.3. Set out level line around the wall marking using leveling device 1.4. Set out location of tiles to determine balanced design and cutting requirements, if necessary 1.5. Form accurate curve line to tiled surface around the wall 1.6. Prepare cement-based adhesive following manufacturer's specifications 	<p>TLE_IATS9-12CS-IIIa-j-1</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			1.7. Install guide board to level set out and template curve to specifications 1.8. Maintain minimum voids in mortar tile beds and tiles are fixed, plumb (wall), and flush 1.9. Lay out floor tiles to set out grid with perimeter tiles according to procedures 1.10. Prepare and apply tile grout according to manufacturer’s instruction 1.11. Clean tiled surface according to specifications 1.12. Perform housekeeping	
6. Measurements and trade mathematics 7. Occupational health and safety standards requirements 8. Procedures for installing mosaic tiles on a circular column 9. Company standard operating procedures			LO 2. INSTALL MOSAIC TILES ON CURVED SURFACES 2.1. Check surface for protrusions and plastering imperfections 2.2. Prepare template for column tiling diameter to specifications 2.3. Apply mortar evenly to the required tiling diameter thickness and finished to curve based on prepared template specifications 2.4. Install and position guide board to maintain level line 2.5. Install mosaic tiles to column, maintaining even spacing and level finish to specifications 2.6. Prepare and apply tile grout according to manufacturer’s instructions 2.7. Clean tiled surface according to specifications 2.8. Perform housekeeping	TLE_IATS9-12CS-IVa-j-2

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Code Book Legend

Sample: TLE_IATS9-12FT-Ia-j-1

LEGEND		SAMPLE	
First Entry	Learning Area and Strand/ Subject or Specialization	Technology and Livelihood Education_Industrial Arts Tile Setting	TLE_IA ES 9-12
	Grade Level	Grade 9/10/11/12	
Uppercase Letter/s	Domain/Content/ Component/ Topic	Lay and Repair of Wall and Floor Tiles	FT
			-
Roman Numeral <i>*Zero if no specific quarter</i>	Quarter	First Quarter	I
Lowercase Letter/s <i>*Put a hyphen (-) in between letters to indicate more than a specific week</i>	Week	Week One to Ten	a-j
			-
Arabic Number	Competency	Plan for Tiling Works	1

DOMAIN/ COMPONENT	CODE
Lay and Repair of Wall and Floor Tiles	FT
Tile Corners	TC
Tiling Curved Surfaces	CS

Technology-Livelihood Education and Technical-Vocational Track specializations may be taken between Grades 9 to 12.

Schools may offer specializations from the four strands as long as the minimum number of hours for each specialization is met.

Please refer to the sample Curriculum Map on the next page for the number of semesters per Industrial Arts specialization and those that have pre-requisites. Curriculum Maps may be modified according to specializations offered by a school.

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SAMPLE INDUSTRIAL ARTS CURRICULUM MAP** (as of May 2016)

GRADE 7/8 (EXPLORATORY)			GRADES 9-12		
				Automotive Servicing (NC I)* <small>updated based on TESDA Training Regulations published December</small>	8 sems
				*Automotive Servicing (NC II)	8 sems
			Motorcycle/Small Engine Servicing (NC II)	Driving (NC II)	4 sems
				Electronic Products Assembly and Servicing (NC II)* <small>updated based on TESDA Training Regulations published December 28, 2013</small>	8 sems
				*Mechatronics Servicing (NC II)	4 sems
				*Instrumentation Control and Servicing (NC II)	4 sems
				Electrical Installation and Maintenance (NC II)	8 sems
				*Electrical Power Line Distribution Line Construction (NC II)	4 sems
				*Transmission Line Installation and Maintenance (NC II)	8 sems
				Machining (NC I)	8 sems
				*Machining (NC II)	8 sems
			Plumbing (NC I)	*Plumbing (NC II)	4 sems
				Domestic Refrigeration and Air-conditioning Servicing (NC II)	8 sems
				*Refrigeration and Air-conditioning Servicing (PACU/CRE) (NC III)	8 sems
			Shielded Metal Arc Welding (NC I)	*Shielded Metal Arc Welding (NC II)	4 sems
				*Gas Metal Arc Welding (GMAW) (NC II)	4 sems
				*Gas Tungsten Arc Welding (GTAW) (NC II)	4 sems
				Carpentry (NC II)	8 sems
			*Carpentry (NC III)	Construction Painting (NC II)	4 sems
				Furniture Making (Finishing) (NC II)	8 sems
		4 sems	Masonry (NC II)	Tile Setting (NC II)	4 sems

EXPLORATORY

* Please note that these subjects have pre-requisites mentioned in the CG.

+ CG updated based on new Training Regulations of TESDA.

Other specializations with no prerequisites may be taken up during these semesters.

Pre-requisites of the subjects to the right should be taken up during these semesters.

**This is just a sample. Schools make their own curriculum maps considering the specializations to be offered. Subjects may be taken up at any point during Grades 9-12.

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Reference:

Technical Education and Skills Development Authority (TESDA). *Tile Setting NCII*. Compiled by the Skills Standards and Certification Office. Series 2011. Taguig City, Philippines: TESDA, 2011.