

**K to 12 BASIC EDUCATION CURRICULUM
 JUNIOR HIGH SCHOOL TECHNOLOGY AND LIVELIHOOD EDUCATION AND SENIOR HIGH SCHOOL TECHNICAL-VOCATIONAL-LIVELIHOOD TRACK
 AGRI-FISHERY ARTS – LANDSCAPE INSTALLATION AND MAINTENANCE**

These are the list of specializations and their pre-requisites.

	Specialization	Number of Hours	Pre-requisite
1.	Animal Production (NC II)	480 hours	
2.	Aquaculture (NC II)	640 hours	
3.	Artificial Insemination (Ruminants) (NC II)	160 hours	Animal Production
4.	Artificial Insemination (Swine) (NC II)	160 hours	Animal Production
5.	Crop Production (NC I)	320 hours	
6.	Fish Wharf Operation (NC I)	160 hours	Fish or Shrimp Grow Out Operation
7.	Food (Fish) Processing (NC II)	640 hours	
8.	Horticulture (NC II)	640 hours	
9.	Landscape Installation and Maintenance (NC II)	320 hours	Crop Production
10.	Organic Agriculture (NC II)	320 hours	Crop Production
11.	Pest Management (NC II)	320 hours	Crop Production
12.	Rice Machinery Operation (NC II)	320 hours	Crop Production
13.	Slaughtering Operation (NC II)	160 hours	Animal Production
1.	Beauty/Nail Care (NC II)	160 hours	40 hours of the subject during exploratory Grade 7/8
2.	Attractions and Theme Parks (NC II)	160 hours	
3.	Bread and Pastry Production (NC II)	160 hours	
4.	Caregiving (NC II)	640 hours	40 hours of the subject during exploratory Grade 7/8
5.	Cookery (NC II)	320 hours	40 hours of the subject during exploratory Grade 7/8
6.	Dressmaking (NC II)	320 hours	
7.	Food and Beverage Services (NC II)	160 hours	
8.	Front Office Services (NC II)	160 hours	40 hours of the subject during exploratory Grade 7/8
9.	Hairdressing (NC II)	320 hours	
10.	Handicraft (Basketry, Macrame) (Non-NC)	160 hours	
11.	Handicraft (Fashion Accessories, Paper Craft) (Non-NC)	160 hours	
12.	Handicraft (Needlecraft) (Non-NC)	160 hours	
13.	Handicraft (Woodcraft, Leathercraft) (Non-NC)	160 hours	
14.	Housekeeping (NC II)	160 hours	
15.	Local Guiding Services (NC II)	160 hours	
16.	Tailoring (NC II)	320 hours	40 hours of the subject during exploratory Grade 7/8
17.	Tourism Promotion Services (NC II)	160 hours	
18.	Travel Services (NC II)	160 hours	
19.	Wellness Massage (NC II)	160 hours	

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		Specialization	Number of Hours	Pre-requisite
1.	ICT	Computer Hardware Servicing (NC II)	320 hours	
2.		Animation (NC II)	320 hours	
3.		Computer Programming (NC IV)	320 hours	
4.		Contact Center Services (NC II)	320 hours	
5.		Illustration (NC II)	320 hours	
6.		Medical Transcription (NC II)	320 hours	
7.		Technical Drafting (NC II)	320 hours	
1.	INDUSTRIAL ARTS	Automotive Servicing (NC I)	640 hours	
2.		Carpentry (NC II)	640 hours	
3.		Consumer Electronics Servicing (NC II)	640 hours	
4.		Domestic Refrigeration and Airconditioning Servicing (NC II)	640 hours	
5.		Electrical Installation and Maintenance (NC II)	640 hours	
6.		Masonry (NC II)	320 hours	
7.		Plumbing (NC I)	320 hours	
8.		Plumbing (NC II)	320 hours	Plumbing (NC I)
9.		Shielded Metal Arc Welding (NC I)	320 hours	
10.		Shielded Metal Arc Welding (NC II)	320 hours	Shielded Metal Arc Welding (NC I)
11.		Tile Setting (NC II)	320 hours	

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AGRI-FISHERY ARTS – LANDSCAPE INSTALLATION AND MAINTENANCE
(160 hours)

Course Description:

This course is designed to enhance the knowledge, skills and attitudes of an individual in the field of landscaping in accordance with industry standards. It covers core competencies such as: perform site inventory and analysis, planning, site clearing and grubbing activities, perform rough grading operations, perform site preparation activities, install plants at designated locations as designed, install plant support, Trim and prune landscape plants, perform weeding and cultivation, apply fertilizer(nutrition), water plants, control and prevent plant pest and diseases, provide plant support, perform lawn-grass maintenance, perform re-planting activities and collect, dispose and utilize organic wastes.

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
INTRODUCTION 1. Concept and principles in landscape installation and management 2. Importance of landscaping 3. Principles and design of landscaping	The learner demonstrates an understanding of the underlying principles and theories of landscaping, as well as the principles of design.	The learner independently applies the principles of landscaping in improving the aesthetics of the land, and creates and interprets landscape plans.	LO 1. Explain and demonstrate the basic concept and principles in landscape installation and management 1.1. Landscape concept 1.2. Importance of landscaping 1.3. Landscape plan	
			LO 2. Understand the importance and principle of design and landscaping 2.1. Principle of design 2.2. Selecting plant for landscape plan 2.3. Landscape plan	
PERSONAL ENTREPRENEURIAL COMPETENCIES (PECS)				
1. Assessment of Personal Competencies and Skills (PECs) vis-à-vis a practicing entrepreneur/employee in locality/town. 1.1. Characteristics 1.2. Attributes 1.3. Lifestyle 1.4. Skills 1.5. Traits 2. Analysis of PECs in relation to a practitioner 3. Align, strengthen and develop one's PECs based on the results	The learner demonstrates understanding on the underlying of one's personal Competences and skills (PECs) in Landscape Installation and Maintenance.	The learner recognizes his/her Personal Entrepreneurial Competencies and Skills (PECs) and prepares an activity plan that aligns with that of a practitioner/entrepreneur in Landscape Installation and Maintenance.	LO 1. Recognizes Personal Entrepreneurial Competencies and Skills (PECs) needed in Landscape Installation and Maintenance 1.1. Assess one's PECSS: Characteristics, attributes, lifestyle, skills, traits 1.2. Assess practitioner's characteristics, attributes, lifestyle, skill, traits 1.3. Compare one PECSS with that of a practitioner/entrepreneur 1.4. Align one's PECSS with that of a practitioner/entrepreneur	TLE_PECs9-12-00-1

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ENVIRONMENT AND MARKET (EM)				
Market (Province) 1. Key concepts of Market 2. Players in the Market (Competitors) 3. Products and services available in the market	The learner demonstrates understanding of environment and market in Landscape Installation and Maintenance.	The learner independently creates a business vicinity map reflective of potential Landscaping market within the province.	LO 1. Recognize and understand the market in Landscape Installation and Maintenance 1.1. Identify the players/competitors within the province	TLE_EM9-12-Ia-j-1
Market (Customer) 1. Key concepts of identifying and understanding the consumer 2. Consumer Analysis through 2.1. Observation 2.2. Interview 2.3. FGD 2.4. Survey			LO 2. Recognize the potential customer/market in Landscape Installation and Maintenance 2.1. Identify the profile of potential customers 2.2. Identify the customer's needs and wants through consumer analysis 2.3. Conduct consumer/market analysis	TLE_EM9-12-IIa-j-2
3. Generating Business Idea 3.1. Key concepts of Generating Business Ideas 3.2. Knowledge and skills. Passion, Interests 3.3. New Application 3.4. Irritants 3.5. Striking ideas (new concept) 3.6. Serendipity			LO 3. Create new business ideas in landscaped Installation and Maintenance business by using various techniques 3.1. Explore ways of generating business idea from one's own characteristics/attributes 3.2. Generate business ideas using product innovation from irritants, trends and emerging needs 3.3. Generate business ideas using Serendipity Walk	TLE_EM9-12-IIIa-j-3
QUARTER 1				
LESSON: LANDSCAPE INSTALLATION				
Site Analysis and Inventory 1. Dimensions of the lot 2. Topography 3. Soil analysis 4. Directional orientation 5. Proximity to roads, public transportation or waterways	The learner demonstrates an understanding of the principles of design, and the underlying principles and theories of landscaping.	The learner independently prepares a sample of site inventory and analysis of the site to be landscaped	LO 1. Prepare a site inventory, analysis, and an inventory of the lot to be landscaped	TLE_AFLI9-12SA-Ia-c-1

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6. Views from and toward the site (pleasant and unpleasant)				
Concept and Planting plans	The learner demonstrates an understanding of the principles of design, and the underlying principles and theories of landscaping.	The learner independently prepares and drafts a concept and planting plans in a given lot or area using the appropriate symbols in design process.	LO. 1. Prepare a concept plan for a particular site using the data or information gathered during site analysis	TLE_AFLI9-12CP-Id-f-1
			LO.2. Draft and prepare a planting plan appropriate for the area	TLE_AFLI9-12DP-Ig - i-2
QUARTER 2				
Site clearing and grubbing or excavating activities 1. Clear site 2. Dispose waste 3. Perform post-clearing site and grubbing activity	The learner demonstrates an understanding of the principles of design, and the underlying principles and theories of landscaping.	The learner independently clears the site for landscaping and performs proper grubbing activities according the established standard practices.	LO 1. Clear site 1.1. Remove unwanted vegetation and debris according to instructions 1.2. Protect trees designed to be retained according to standards. 1.3. Clear site using prescribed tools and equipment 1.4. Perform task using appropriate safety protective devices	TLE_AFLI9-12SC-IIa-b-1
			LO 2. Dispose waste 2.1. Gather and dispose of waste materials in accordance with environmental standards 2.2. Perform task using appropriate safety protective devices	TLE_AFLI9-12DW-IIc-2
			LO 3. Perform post-cleaning and grubbing activity 3.1. Clean, maintain and store tools and equipment according to established standard practices 3.2. Maintain a clean and safe area throughout and upon completion of work 3.3. Report work output to concerned persons/authority according to industry practices	TLE_AFLI9-12PC-IIId-e-3

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
<p>Rough grading operation</p> <ol style="list-style-type: none"> 1. Rough grade site 2. Provide surface drainage and shape or form the land 3. Perform post-rough grading operations 	<p>The learner demonstrates an understanding of the principles of design, and the underlying principles and theories of landscaping.</p>	<p>The learner independently performs rough site grading in accordance with the designed grading plans, specifications or instructions.</p>	<p>LO 1. Rough grade site</p> <ol style="list-style-type: none"> 1.1. Perform rough site grading to achieve desired elevations or slopes by cutting or filling in accordance with the designed grading plans, specifications or instructions. 1.2. Grade the site roughly using prescribed tools and equipment in accordance with standards of rough grading practice 1.3. Perform the task using appropriate personal protective equipment (PPE) 	<p>TLE_AFLI9-12RG-IIIf-g-1</p>
			<p>LO 2. Provide surface drainage and shape or form the land</p> <ol style="list-style-type: none"> 2.1. Grade the site to drain surface water and to shape the land in accordance with the designed grading plans and instructions 2.2. Perform the tasks using prescribed tools, equipment and personal protective equipment (PPE) 	<p>TLE_AFLI9-12SD-IIh-2</p>
			<p>LO 3. Perform post-rough grading operations</p> <ol style="list-style-type: none"> 3.1. Protect the newly graded site against human, animal and mechanical disturbance, and other potential hazards like inclement weather 3.2. Clean, maintain and store all the Site grading tools and equipment according to established standard practices 3.3. Maintain a clean and safe area throughout and upon completion of work 	<p>TLE_AFLI9-12PR-IIi-j-3</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			3.4. Report work output to concerned persons/authority according to industry practices	
QUARTER 3				
Site preparation activities 1. Cultivation 2. Removal of construction debris and other materials 3. Add amended soil/ soil mix to cultivated land 4. Compact cultivated land 5. Post-land preparation activities	The learner demonstrates an understanding of the principles of design, and the underlying principles and theories of landscaping.	The learner independently performs proper cultivation of land according to specifications and standard general grading and compaction specifications.	LO 1. Cultivate land 1.1. Cultivate/till/dig land in accordance with the designed plans, specifications or instructions. 1.2. Cultivate land using prescribed tools and equipment 1.3. Perform the tasks using appropriate personal protective equipment (PPE)	TLE_AFLI9-12PA-IIIa-1
			LO 2. Remove construction debris and other materials 2.1. Gather and remove all construction debris and other materials from site in accordance with the designed plans, specifications or instructions 2.2. Dispose of gathered construction debris at designated area 2.3. Perform the tasks using prescribed tools, equipment and safety protective devices	TLE_AFLI9-12CD-IIIa-2
			LO 3. Add amended soil / soil mix to cultivated land 3.1. Add/incorporate amended soil/soil mix to cultivated land in accordance with ANSI as well as standard general nursery specifications or instructions 3.2. Perform the tasks using prescribed tools and equipment and appropriate safety protective devices	TLE_AFLI9-12AS-IIIb-3
			LO 4. Find grade and compact cultivated land	TLE_AFLI9-12GC-IIIc-4

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
height, lawn grass/turf, aquatic plants, orchids, etc.) 5. Apply fertilizer 6. Water plants 7. Apply / Install mulch			LO. 2 Lay out or stake out plants 2.1. Mark on the ground the exact location of the plants based on the planting plan, specifications and/or instructions 2.2. Distribute and mark on the ground the appropriate plants as indicated in the planting plan or according to instructions	TLE_AFLI9-12LS-IIIe-2
			LO 3. Excavate hole /pit 3.1. Excavate/dig hole/pit at designated mark according to specifications or instructions 3.2. Perform tasks using prescribed tools, equipment and appropriate personal protective equipment (PPE)	TLE_AFLI9-12PH-IIIe-3
			LO 4. Install plants 4.1. Remove plants from container according to prescribed instructions and techniques 4.2. Take extra effort not to injure the plants while installing them in the designated location 4.3. Perform pre-planting watering of excavated holes (thoroughly saturated) according to accepted standard techniques and procedures 4.4. Install the plants according to landscape specifications and	TLE_AFLI9-12PI-IIIIf-4

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			standards, detailed drawings and instructions 4.5. Setting the plants so that the soil level of plant in container shall be the same as the finished grade of the hole 4.6. Handle plants with care to avoid breakage of root ball, trunk/stem, branches and scraping of bark 4.7. Set and hold plant's plumb in position until sufficient soil has been firmly placed around and under the root ball 4.8. Lightly tamp the soil around the base of the plant to eliminate air pockets and to hold the plant firmly to the soil	
			LO 5. Apply fertilizers 5.1. Select fertilizers based on manufacturer's guaranteed analysis, labels or as specified 5.2. Apply fertilizers and/or rooting hormones to newly installed plants in accordance with the standard landscaping specifications or instructions 5.3. Apply fertilizers to large trees and palms when the planting hole/pit is half-filled with amended soil based on instructions 5.4. Perform tasks using prescribed tools, equipment and appropriate personal protective equipment (PPE)	TLE_AFLI9-12AF-IIIg-5

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			<p>LO 6. Water plants</p> <p>6.1. Make watering basin /bern around each plant according to instructions or specifications</p> <p>6.2. Perform watering after planting to thoroughly wet the root ball and surrounding ground in accordance with standard watering techniques</p> <p>6.3. Perform tasks using prescribed tools, equipment and appropriate personal protective equipment (PPE)</p>	<p>TLE_AFLI9-12WP-IIIh-6</p>
			<p>LO 7. Apply / install mulch</p> <p>7.1. Select and prepare materials for mulching according to standard landscape specifications, instructions or detailed drawing</p> <p>7.2. Prepare area / ground where mulch will be applied according to specifications, instructions or detailed drawing</p> <p>7.3. Apply mulch according to specifications, instructions or detailed drawing</p> <p>7.4. Perform tasks using prescribed materials and tools and equipment</p> <p>7.5. Perform tasks using appropriate safety protective safety protective devices</p> <p>7.6. Restore and clean area as per standard operating procedures</p>	<p>TLE_AFLI9-12AM-IIIi-7</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			<p>LO 8. Perform post landscape installation activities</p> <p>8.1. Clean, maintain and store tools and equipment according to established standard practices</p> <p>8.2. Maintain a clean and safe area throughout and upon completion of work</p> <p>8.3. Report work output to concerned person(s)/authority according to industry practices</p>	<p>TLE_AFLI9-12LP-IIIj-8</p>
QUARTER 4				
<p>Install plant support</p> <p>1. Install stakes or staking</p> <p>2. Install plant guys or guying</p> <p>3. Install plant props / braces or propping bracing</p>	<p>The learner demonstrates understanding on the underlying principles and theories of landscaping including the principles of design.</p>	<p>The learner independently establishes plant support by installing stake, plant guy and plant props according to landscape specifications, instructions or detailed drawing.</p>	<p>LO 1. Install stake or staking</p> <p>1.1. Select and prepare materials for staking in accordance with the standard landscape specifications, instructions or detailed drawing</p> <p>1.2. Install stakes according to specifications, instructions or detailed drawing</p> <p>1.3. Apply paint to all wooden and other visible parts according to specifications, instructions or detailed drawing</p> <p>1.4. Perform tasks in installing stakes using appropriate safety protective devices and prescribed materials, tools and equipment</p> <p>1.5. Clean and restore area as per industry standard operating procedures</p>	<p>TLE_AFLI9-12PS-IVa-c-1</p>
			<p>LO 2. Install plant guy or guying</p>	<p>TLE_AFLI9-12PG-IIVd-f-2</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			2.1. Select and prepare materials for guying in accordance with the standard landscape specifications, instructions or detailed drawing 2.2. Install plant guys according to specifications, instructions or detailed drawing 2.3. Install warning signs in areas where guys are placed according to specifications, instructions or detailed drawing 2.4. Perform tasks in installing plant guys =using appropriate safety protective devices and prescribed materials, tools and equipment 2.5. Clean and restore the area as per industry standard operating procedures	

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			<p>LO 3. Install plant prop/bracing or propping bracing</p> <p>3.1. Select and prepare the <i>Materials for plant props / braces</i> i according to standard landscape specifications, instructions or detailed drawing</p> <p>3.2. Install plant props / braces according to specifications, instructions or detailed drawings</p> <p>3.3. Apply paints to all wooden and other visible parts in accordance with the specifications, instructions or detailed drawing</p> <p>3.4. Perform tasks in installing plant props or braces using appropriate safety protective devices and prescribed materials, tools and equipment</p> <p>3.5. Clean and restore the area as per industry standard operating procedures</p>	<p>TLE_AFLI9-12PP-IVg-i-3</p>

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(160 hours)

Course Description:

This course is designed to enhance the knowledge, skills and attitudes of an individual in the field of **Landscaping** in accordance with industry standards. It covers core competencies such as: perform site inventory and analysis, planning, site clearing and grubbing activities, perform rough grading operations, perform site preparation activities, install plants at designated locations as designed, install plant support, Trim and prune landscape plants, perform weeding and cultivation, apply fertilizer(nutrition), water plants, control and prevent plant pest and diseases, provide plant support, perform lawn-grass maintenance, perform re-planting activities and collect, dispose and utilize organic wastes.

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
QUARTER 1				
LESSON : MAINTENANCE OPERATION				
Trim and prune landscape plants 1. Identify trimming and pruning requirements 2. Prepare for trimming and pruning operations 3. Perform trimming and pruning 4. Perform post-trimming and pruning activities	The learner demonstrates understanding on the underlying principles and theories of landscaping including the principles of design.	The learner independently performs trimming and pruning practices including post trimming of landscape plants in accordance to landscape maintenance standards.	LO 1. Identify trimming and pruning requirement 1.1. Distinguish Landscape plants and their parts that are in need of trimming and pruning according to landscape maintenance standards (LMS) 1.2. Determine Purpose and method of pruning according to LMS 1.3. Locate the Utility services using site plans and in consultation with concerned persons or authority 1.4. Determine access to the site in consultation with concerned persons or authority 1.5. Identify occupational health and safety (OHS) hazards, and report risks to concerned persons or authority	TLE_AFLI19-12TP-Ia-1

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			<p>LO 2. Prepare for trimming and pruning operations</p> <p>2.1. Prepare Tools, supplies and equipment in accordance with the work requirements</p> <p>2.2. Carry out pre-operational and safety checks on tools and equipment according to manufacturer’s specifications and industry work practices</p> <p>2.3. Select, use, and maintain prescribed safety and personal protective equipment (PPE)</p>	<p>TLE_AFLI9-12PP-Ib-2</p>
			<p>LO 3. Perform trimming and pruning</p> <p>3.1. Install Safety warning devices around the site during and between work periods</p> <p>3.2. Trim and prune landscape plants in accordance with work program and LMS</p> <p>3.3. Perform trimming and pruning of landscape plants using prescribed tools and equipment</p> <p>3.4. Apply sterilizing agent/compound on pruning wounds in accordance with LMS</p> <p>3.5. Conduct tasks using appropriate PPE</p>	<p>TLE_AFLI9-12TP-Ic-3</p>

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			<p>LO 4. Perform post trimming and pruning activity</p> <p>4.1. Collect and dispose of trimming and pruning wastes from the site in accordance with environmental standards and LMS</p> <p>4.2. Use the recommended manual handling techniques when lifting or moving heavy loads</p> <p>4.3. Clean, maintain and store the tools and equipment according to LMS</p> <p>4.4. Maintain a clean and safe area throughout and upon completion of work</p> <p>4.5. Record and report work outputs to concerned persons or authority according to industry practices</p>	<p>TLE_AFLI9-12TO-Id-4</p>
<p>Weeding and Cultivation</p> <ol style="list-style-type: none"> 1. Weeding and cultivation 2. Weeding and cultivation operation 3. Weeding and removal of “volunteer” species 4. Compacted soil 5. Cultivation compacted soil 6. Post-weeding and soil cultivation activities 	<p>The learner demonstrates understanding on the underlying principles and theories of landscaping including the principles of design.</p>	<p>The learner independently identifies, prepares and executes weeding and cultivation requirements of the landscape plants based on the specific landscape maintenance guidelines and standards.</p>	<p>LO 1. Identify requirements for weeding and cultivation activity</p> <ol style="list-style-type: none"> 1.1. Identify weed species and “volunteer” plants (“invaders”) that are out-of-place and considered undesirable in the landscape based on specific landscape maintenance guidelines or as per instructions. 1.2. Identify landscape areas needing weeding and cultivation based on instructions or in accordance with LMS <p>LO 2. Prepare for weeding and cultivation operations</p> <ol style="list-style-type: none"> 2.1. Prepare and secure the list of weeds and “volunteer plants” and the map of specific landscape areas 2.2. Determine the method and purpose 	<p>TLE_AFLI9-12PT-Ie-1</p> <p>TLE_AFLI9-12TR-If-2</p>

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 AGRI-FISHERY ARTS – LANDSCAPE INSTALLATION AND MAINTENANCE**

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			of weeding based on the type of weed species and out-of-place "volunteer" species 2.3. Prepare and avail of the tools, supplies and equipment needed for use according to the types of weeds and "volunteer" species that need removal 2.4. Prepare appropriate safety protective devices for use	
			LO 3. Conduct weeding and removal of volunteer species 3.1. Remove and dispose of weeds and out-of-place "volunteer" plant species in the landscape in accordance with landscape maintenance standards or as per instructions. 3.2. Remove weeds and out-of-place "volunteer" plant species using prescribed tools and equipment 3.3. Perform tasks are done using appropriate safety/protective devices	TLE_AFLI9-12WC-Ig-3
			LO 4. Identify compacted soil 4.1. Identify compacted soil or soil that is having problem with aeration, water infiltration and conditions for root development as per established practice 4.2. Recognize the Effects of compacted soil on root development and anchorage are recognized 4.3. Determine the Method and purpose of soil cultivation based on the conditions of the soil	TLE_AFLI9-12CW-Ig-4

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			LO 5. Cultivated compacted soil 5.1. Cultivate compacted soil simultaneous with weeding operations in accordance with landscape maintenance standards or as per instructions 5.2. Perform soil cultivation using appropriate tools and equipment Perform Task using prescribed safety/protective devices	TLE_AFLI9-12WV-Ig-5
			LO 6. Perform post-weeding and soil cultivation activities 6.1. Clean, maintain and store tools and equipment as per instruction or in accordance with LMS 6.2. Maintain a clean and safe area throughout and upon completion of work 6.3. Record and report work outputs to concerned persons or authority according to industry practices	TLE_AFLI9-12CS-Ih-6
Apply fertilizer 1. Fertilizer application requirements 2. Fertilizer application activity 3. Post- fertilizer application activities	The learner demonstrates understanding on the underlying principles and theories of landscaping including the principles of design	The learner independently identifies, prepares and executes fertilizer and post fertilizer application of the landscaped plants based on the landscape plant requirements or nutritional guidelines/standards	LO 1. Identify fertilizer application requirement 1.1. Collect soil and plant samples (leaves) for analysis in accordance with standard operating procedures (SOPs) 1.2. Identify landscape plants in need of nutrition based on the results of soil and plant analyses	TLE_AFLI9-12CC-Ih-1

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			<p>LO 2. Prepare for fertilizer application activity</p> <p>2.1. Select different types of fertilizers based on nutritional guidelines and standards</p> <p>2.2. Determine the method of fertilizer application according to LMS</p> <p>2.3. Select and prepare fertilizer application tools and equipment according to application method selected</p> <p>2.4. Prepare soil and plants for application of fertilizer in accordance with the instructions or available standards</p> <p>2.5. Select the prescribed safety and personal protective equipment (PPE)</p>	<p>TLE_AFLI9-12PW-Ii-2</p>
			<p>LO 3. Perform fertilizer application activity</p> <p>3.1. Determine the frequency and dosage of fertilizer application based on landscape plant requirements or nutritional guidelines/standards</p> <p>3.2. Apply fertilizer in accordance with recommended application method</p> <p>3.3. Apply fertilizer in accordance with OHS requirements and Fertilizer and Pesticide Authority (FPA) guidelines</p> <p>3.4. Perform task using the prescribed tools and equipment and appropriate protective/safety devices</p>	<p>TLE_AFLI9-12FA-Ij-3</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			LO 4. Perform post-fertilizer application activities 4.1. Clean, maintain and store the tools and equipment according to LMS 4.2. Maintain a clean and safe area throughout and upon completion of work 4.3. Record and report work outputs to concerned persons or authority according to industry practices	TLE_AFLI9-12FP-Ij-4
QUARTER 2				
Water Plants 1. Requirements of watering/irrigating landscape plants 2. Watering/irrigation activity 3. Watering/irrigation of plant 4. Post-watering/irrigation activities	The learner demonstrates understanding on the underlying principles and theories of landscaping including the principles of design.	The learner independently determines, prepares and conducts watering/irrigation of the landscape plants based on the landscape plant requirements as per established practice.	LO 1. Identify requirements of watering / irrigating landscape plants 1.1. Recognize the Importance of water to growth and development of landscape plants and the effects of water stress (less or excess water) to plants as per established practice 1.2. Determine the landscape plants suffering from less or excessive watering using some visually observable plant and soil conditions and/or guidelines	TLE_AFLI9-12FE-IIa-1

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			<p>LO 2. Prepare for watering / irrigation activity</p> <p>2.1. Determine the Amount and frequency of watering/irrigation of plants in accordance with LMS or as per instructions</p> <p>2.2. Prepare Tools, supplies and equipment needed based on the method of watering and/or irrigation to be used</p> <p>2.3. Prepare and avail of the Prescribed protective/safety devices for use</p>	<p>TLE_AFLI9-12PF-IIb-2</p>
			<p>LO 3. Conduct watering / irrigation of plants</p> <p>3.1. Conduct watering or irrigating of plants in accordance with the basic principles or standard practice or as per instructions</p> <p>3.2. Perform watering/irrigation using the irrigation tools and equipment appropriate to the methods selected</p> <p>3.3. Perform task using the prescribed protective/safety gadgets</p>	<p>TLE_AFLI9-12IA-IIc-3</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			<p>LO 4. Perform post-watering / irrigation activities</p> <p>4.1. Clean, maintain and store the tools and equipment as per instruction or in accordance with LMS</p> <p>4.2. Maintain a clean and safe area throughout and upon completion of work</p> <p>4.3. Record and report work outputs to concerned persons or authority according to industry practices</p>	<p>TLE_AFLI9-12CI-IIId-4</p>
<p>Control and prevent plant pest and diseases</p> <ol style="list-style-type: none"> 1. Requirements of preventing and controlling plant pests and diseases 2. Application of pests and disease prevention and control measures 3. Pest and disease prevention and control measures 4. Post-prevention and control measures 	<p>The learner demonstrates understanding on the underlying principles and theories of landscaping including the principles of design.</p>	<p>The learner independently applies the control and preventive measures of pest and diseases of landscape plants based on the specific landscape maintenance operation and in accordance with LMS or manufacturer’s recommendation.</p>	<p>LO 1. Identify requirements of preventing and controlling plant pests and diseases</p> <ol style="list-style-type: none"> 1.1. Determine the Infested and diseased landscape plants based on plant conditions, symptoms and signs and other manifestation of infestation and infection 1.2. Identify and classify the Pests and diseases using general classification guidelines 1.3. Know the life cycle or various life stages of pests from eggs, larvae, pupa and adult and their mode of attack or infestation 1.4. Know the life cycle or various life stages and signs and symptoms of plant diseases and their mode of attack 1.5. Determine the access to the site in consultation with concerned persons or authority 1.6. Identify the Occupational Health and Safety (OHS) hazards and 	<p>TLE_AFLI9-12WP-IIe-f-1</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			report risks to concerned persons or authority	
			<p>LO 2. Prepare for application of pest and disease prevention and control measures</p> <p>2.1. Determine the Method of prevention and control based on types of pests and diseases, their mode of attack and extent of infestation and infection</p> <p>2.2. Prepare the tools, equipment, supplies and materials relevant to the method of prevention and control</p> <p>2.3. Select the prescribed safety and personal protective equipment (PPE) in accordance with work requirements</p>	TLE_AFLI9-12PD-IIg-2
			<p>LO 3. Apply pest and disease prevention and control measures</p> <p>3.1. Apply the manual and biological method of prevention and control of pest and disease whenever applicable</p> <p>3.2. Determine the frequency and dosage of application based on types of pests and diseases and extent of attack according to LMS or manufacturer's recommendation</p> <p>3.3. Apply pest and disease prevention and control measures according to OHS requirements and Fertilizer and Pesticide Authority (FPA) guidelines</p> <p>3.4. Perform the task using prescribed</p>	TLE_AFLI9-12CP-IIh-i-3

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			tools, supplies and appropriate protective/safety devices LO 4. Perform post-pest and disease prevention and control measures 4.1. Clean, maintain and store the Tools and equipment according to LMS 4.2. Undertake the Maintenance of clean and safe area throughout and on completion of work (refer to previous rewrite sp 4) 4.3. Record and report work outputs to concerned persons or authority according to industry practices	TLE_AFLI9-12CM-IIj-4
QUARTER 3				
Provide plant support 1. Requirements for installing plant support 2. Installation of plant support 3. Plant support 4. Post-plant support activities	The learner demonstrates understanding on the underlying principles and theories of landscaping including the principles of design.	The learner independently identifies, installs and maintains plant support and performs other post-plant support activities of landscape plants based on the specific landscape maintenance operations or as per instructions.	LO 1. Identify requirements for installing plant support 1.1. Mark and count the Landscape plants in need of plant support as per instructions or in accordance with LMS 1.2. Determine the Purpose and method of providing plant support in accordance with LMS or as per instructions	TLE_AFLI9-12MC-IIIa-1

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			<p>LO 2. Prepare for installation of plant support</p> <p>2.1. Select and prepare support materials relevant to the purpose and method of proving plant support in accordance with LMS or as per instructions</p> <p>2.2. Apply plant support materials with preservatives at desired dosage and length of treatment to prolong serviceability as per instructions</p> <p>2.3. Prepare tools, supplies and equipment needed according to the purpose and method of providing plant support</p> <p>2.4. Use the Appropriate safety protective devices needed to carry out the task</p>	<p>TLE_AFLI9-12SP-IIIb-2</p>
			<p>LO 3. Install plant support</p> <p>3.1. Install support materials based on purpose and method of proving plant support or in accordance with LMS or as per instructions</p> <p>3.2. Undertake plant support installation using prescribed tools and equipment</p>	<p>TLE_AFLI9-12IS-IIIc-3</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			<p>LO 4. Maintain plant support</p> <p>4.1. Inspect and maintain plant support for a period depending on the conditions of the plant or in accordance with LMS or as per instruction</p> <p>4.2. Replace unserviceable plant support if necessary or as instructed</p> <p>4.3. Remove and dismantle plant support once it is no longer needed, has served its intended purpose , or as instructed</p> <p>4.4. Perform tasks using prescribed tools and equipment and appropriate safety protective device</p>	<p>TLE_AFLI9-12PM-IIIId-4</p>
			<p>LO 5. Perform post-plant support activities</p> <p>5.1. Keep in proper storage all dismantled plant support materials that can still be re-used as per instruction</p> <p>5.2. Clean, maintain and store tools and equipment as per instruction or in accordance with LMS</p> <p>5.3. Undertake Maintenance of clean and safe area throughout and upon completion of work</p> <p>5.4. Record and report work</p>	<p>TLE_AFLI9-12PL-IIIE-5</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
Perform lawn grass maintenance 1. Mowing 2. Irrigation 3. Fertilization 4. Control of pests 5. Control of weeds	The learner demonstrates understanding on the underlying principles and theories of landscaping including the principles of design.	The learner independently conducts mowing, irrigation, fertilizer application and the control of pest and diseases of lawn grass based on the specific landscape maintenance operation or as per instructions.	LO 1. Mow lawn grass 1.1. Prepare supplies, materials, tools and equipment for use in mowing lawn grass 1.2. Mow Lawn grass according to specifications or instructions 1.3. Perform tasks using the prescribed tools and equipment and or based on established practice 1.4. Observe Personal Protective Equipment and Safety procedures during mowing of lawn grass	TLE_AFLI9-12MG-IIIIf-1
			LO 2. Irrigate lawn 2.1. Prepare supplies, tools and equipment for use in irrigating lawn 2.2. Observe Personal Protective Equipment and Safety procedures in irrigating lawn 2.3. Irrigate lawn based on established procedures 2.4. Carry on Modifications based on established procedures in the event of malfunctions, climatic changes and accidents	TLE_AFLI9-12IL-IIIg-2
			LO 3. Fertilize lawn 3.1. Prepare supplies, materials, tools and equipment for use in fertilizing lawn 3.2. Observe personal protective Equipment and Safety procedures in fertilizing lawn 3.3. Apply Fertilizers based on manufacturer’s instructions and established procedures	TLE_AFLI12FL-IIIh-3
			LO 4. Control pests 4.1. Prepare supplies, Materials, Tools and equipment for use in	TLE_AFLI9-12PT-IIIi-4

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			controlling pests 4.2. Observe Personal Protective Equipment and Safety procedures in controlling pests 4.3. Control Pests using appropriate materials and control LO 5. Control weeds 5.1. Prepare supplies, materials, Tools and equipment for use in controlling weeds 5.2. Observe Personal Protective Equipment and Safety procedures in controlling weeds 5.3. Control Weeds using appropriate materials and procedures and report outputs to concerned persons or authority according to industry practices	TLE_AFLI9-12WE-IIIj-5
QUARTER 4 LESSON: MAINTENANCE OPERATIONS				
Perform Re-Planting Activities 1. Identify requirements for removal and re-planting of landscape plants 2. Prepare for removal and replacement of landscape plants 3. Conduct removal and disposal of landscape plants 4. Prepare land / soil for re-planting 5. Select right species and size of landscape plants for replacement 6. Conduct re-planting activity 7. Perform post-removal and re-planting activities	The learner demonstrates understanding on the underlying principles and theories of landscaping including the principles of design.	The learner independently performs re-planting landscaped area based on the specific landscape maintenance operation or as per instruction.	LO 1. Identify requirements for removal and re-planting of landscape plants 1.1. Recognize Landscape plants that need to be removed/replaced in accordance with LMS or instructions. 1.2. Mark and count landscape plants needing removal and replacement based on the size, plant conditions and purpose using appropriate measuring tools and equipment	TLE_AFLI9-12PA-IVa-1

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			<p>LO 2. Prepare for removal and replacement of landscape plants</p> <p>2.1. Secure and make ready a list of landscape plants needing removal and replacement</p> <p>2.2. Make ready and available Tools, supplies and equipment needed according to the types and sizes of landscape plants</p> <p>2.3. Make ready and available appropriate safety protective devices</p>	<p>TLE_AFLI9-12PR-IVa-2</p>
			<p>LO 3. Conduct removal and disposal of landscape plants</p> <p>3.1. Remove and dispose of subject landscape plants in accordance with LMS or based on instructions</p> <p>3.2. Perform removal and disposal using appropriate tools and equipment</p> <p>3.3. Perform tasks using prescribed protective/safety devices</p>	<p>TLE_AFLI9-12LP-IVb-3</p>
			<p>LO 4. Prepare land / soil for re-planting</p> <p>4.1. Prepare Land/soil for replanting following the landscape installation/maintenance standard or based on instructions</p> <p>4.2. Conduct preparation of land/soil using appropriate tools and equipment</p> <p>4.3. Perform task using prescribed protective/safety devices</p>	<p>TLE_AFLI9-12SR-IVc-4</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			<p>LO 5. Select right species and size of landscape plants for replacement</p> <p>5.1. Select the right species, size and quality of landscape plants to be used for re-planting based on instructions or in accordance with LMS</p> <p>5.2. Consider species and size of the landscape plants removed from site but give equal consideration to other species and sizes depending on the purpose of re-planting or as per instructions</p>	<p>TLE_AFLI9-12ST-IVd-5</p>
			<p>LO 6. Conduct re-planting activity</p> <p>6.1. Conduct Re-planting activity in accordance with LMS or as per instructions</p> <p>6.2. Use appropriate tools, supplies and equipment and prescribed protective/safety devices in the conduct of the activity</p>	<p>TLE_AFLI9-12CA-IVd-6</p>
			<p>LO 7. Perform post-removal and re-planting activities</p> <p>7.1. Clean, maintain and store tools and as per instruction of in accordance with LMS</p> <p>7.2. Maintain a clean and safe area throughout and upon completion of work</p> <p>7.3. Record and report work outputs to concerned persons or authority according to industry practices</p>	<p>TLE_AFLI9-12MP-IVe4-7</p>
<p>Collect, dispose and utilize organic waste</p> <p>1. Requirements for collection, disposal and utilization of organic</p>	<p>The learner demonstrates understanding on the underlying principles and theories of landscaping</p>	<p>The learner independently conducts the proper collection, disposal and utilization of organic wastes based on the</p>	<p>LO 1. Identify requirements for collection, disposal and utilization of organic waste</p>	<p>TLE_AFLI9-12CU-IVf-1</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
waste 2. Collection, segregation, disposal and utilization of organic waste 3. Disposal of organic waste 4. Organic waste 5. Post-disposal and utilization of organic waste	including the principles of design,	specific landscape maintenance operations or as per instructions.	1.1. Determine the Types of plant-derived organic wastes based on the trimming and pruning program 1.2. Identify Locations where the collected organic wastes will be disposed of and/or will be segregated and processed for future utilization based on the trimming and pruning program	
			LO 2. Prepare for collection, segregation, disposal and utilization of organic waste 2.1. Make ready and available the tools, supplies and equipment needed according to the types of the organic wastes, and whether these wastes are to be disposed of or processed and utilized 2.2. Make ready and available the appropriate safety protective devices	TLE_AFLI9-12OW-IVf-2
			LO 3. Gather and dispose organic waste 3.1. Collect and dispose plant derived organic wastes in accordance with LMS or per instructions. 3.2. Perform collection and disposal using prescribed tools and equipment 3.3. Conduct task using appropriate safety protective gadgets	TLE_AFLI9-12GD-IVg-3
			LO 4. Segregate and process collected organic waste 4.1. Collect, segregate and process organic wastes that are to be utilized for specific purposes in designated area as per instructions	TLE_AFLI9-12SP-IVh-4

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			<p>or in accordance with LMS</p> <p>4.2. Conduct collection, segregation and processing (e.g., conversion of woody organic wastes into chips) using prescribed tools, supplies and equipment</p> <p>4.3. Perform Task using appropriate safety protective devices</p>	
			<p>LO 5. Make use of organic waste</p> <p>5.1. Mix Organic wastes (like palm leaves, twigs and branches of shrubs and trees) that are chipped into small materials with grass clippings or either other small organic wastes (leaf litter) for composting. Use other wood chips as mulch.</p> <p>5.2. Perform task in accordance with environmental standards and using appropriate protective safety devices</p>	<p>TLE_AFLI9-12MW-IVi-5</p>
			<p>LO 6. Perform post-disposal and utilization of organic waste</p> <p>6.1. Clean, maintain and store tools and as per instruction of in accordance with LMS</p> <p>6.2. Maintain a clean and safe area throughout and upon completion of work</p> <p>6.3. Record and report work outputs to concerned persons or authority according to industry practices</p>	<p>TLE_AFLI9-12UW-IVj-6</p>

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GLOSSARY

ANSI	
Berm	a narrow path along a road
Braces	physical support for viny crops and plants with slender or soft stems
Compact	closely arranged together to maximize the space; to reduce the size and volume of soil
Compacted soil	soil which is reduced to a smaller volume
Construction debris	these are scattered materials as by-products in the construction site
Cultivation	tilling of soil to produce well prepared soil or the general tillage done
Cutting	making anything into two or 3 pieces with a sharp instrument
Dimensions	measurement in a single direction
Directional orientation	has something to do with position in relation to the point of compass
Fertilizer	any material applied to the soil which provides elements for the nutrition of crops
Filling	to provide something to occupy the whole
FPA (Fertilizer and Pesticide Authority)	governing body that regulates the importation, distribution and sales of fertilizers and pesticides
Grubbing	to dig the land
Guying	To steady, guide, or secure with a rope, cord, or cable.
Landscape plants	plants used in landscape gardening
Landscaping	beautifying a land by planting of crops to cause picturesque effect
Mulch	any material placed at the base of plants which reduces excessive transpiration or to prevent growth of weeds
Organic waste	body of plants and animals or any product or by-products which have no use except for composting
Plant guys	rope used to keep plants in place
Plant props	anything used to support plants

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GLOSSARY	
Plant support	anything that prevents plants from falling down
Post-rough grading	a stage next to rough situation
Rooting hormone	any substance or solution applied in the stem of plants to induce growth of roots
Rough grade site	a parcel of land believed to be in a state of not well-prepared
Rough grading	first digging characterized by big and irregular chunks or soil clods
Segregation	classifying anything for the purpose of separating one kind from another kind
Site clearing	the removal of tall grasses, stones and other foreign materials in a particular land
Site grading tools	instruments used in tilling and leveling the soil
Soil mix	a medium for growing plants made up of garden soil, sand, compost, etc.
Sterilizing agent	a solution used to kill microorganisms
Surface drainage	an open canal system where excess water is made to flow
Topography	the general description of the soil surface
Volunteer species	plants or weeds growing in any place
Water stress	state of strain on the part of plants as a result of exposure to excess water or lack of water
Weed species	varieties of plants considered as weeds
Weeding	removal of plants growing out of place and unwanted

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CODE BOOK LEGEND

Sample: TLE_AFLI9-12PA-IIIa-1

LEGEND		SAMPLE	
First Entry	Learning Area and Strand/ Subject or Specialization	Technology and Livelihood Education_Agri-Fishery Landscape Installation And Maintenance	TLE_AF LI 9-12
	Grade Level	Grade 9/10/11/12	
Uppercase Letter/s	Domain/Content/ Component/ Topic	Cultivation	PA
			-
Roman Numeral <i>*Zero if no specific quarter</i>	Quarter	Third Quarter	III
Lowercase Letter/s <i>*Put a hyphen (-) in between letters to indicate more than a specific week</i>	Week	Week one	a
			-
Arabic Number	Competency	Cultivate land using prescribed tools and equipment	1

DOMAIN/ COMPONENT	CODE
Personal Entrepreneurial Skills	PECS
Environment and Marketing	EM
Landscape Installation	LI
Site Analysis and Inventory	SA
Concept and Planting plans	CP
Draft and prepare a planting plan appropriate for the area	DP
Clear site	SC
Dispose Waste	DW
Perform post-cleaning and grubbing activity	PC
Rough grade site	RG
Provide surface drainage and shape or form the land	SD
Perform post-rough grading operations	PR
Site preparation activities	PA
Remove construction debris and other materials	CD
Remove construction debris and other materials	AS
Find grade and compact cultivated land	GC
Perform post-land preparation activities	PL
Inspect plants	IP
Lay out or stake out plants	LS
Excavate hole /pit	PH
Install plants	PI
Apply fertilizers	AF
Water plants	WP

K to 12 BASIC EDUCATION CURRICULUM
JUNIOR HIGH SCHOOL TECHNOLOGY AND LIVELIHOOD EDUCATION AND SENIOR HIGH SCHOOL TECHNICAL-VOCATIONAL-LIVELIHOOD TRACK
AGRI-FISHERY ARTS – LANDSCAPE INSTALLATION AND MAINTENANCE
CODE BOOK LEGEND

DOMAIN/ COMPONENT	CODE
Apply / install mulch	AM
Perform post landscape installation activities	LP
Install Plant support	PS
Install Plant guy or guying	PG
Install Plant prop/bracing or propping bracing	PP
Trim and prune landscape plants	TP
Perform post trimming and pruning activity	TO
Prepare for weeding and cultivation operations	TR
Conduct weeding and removal of volunteer species	WC
Identify compacted soil	CW
Cultivated compacted soil	WV
Perform post- weeding and soil cultivation activities	CS
Identify fertilizer application requirement	CC
Prepare for fertilizer application activity	PW
Perform fertilizer application activity	FA
Perform post-fertilizer application activities	FP
Identify requirements of watering / irrigating landscape plants	FE
Prepare for watering / irrigation activity	PF
Conduct watering / irrigation of plants	IA
Identify requirements for collection, disposal and utilization of organic waste	CU
Prepare for collection, segregation, disposal and utilization of organic waste	OW
Gather and dispose organic waste	GD

DOMAIN/ COMPONENT	CODE
Perform post-watering / irrigation activities	CI
Identify requirements of preventing and controlling plant pests and diseases	WP
Prepare for application of pest and disease prevention and control measures	PD
Apply pest and disease prevention and control measures	CP
Perform post-pest and disease prevention and control measures	CM
Identify requirements for installing plant support	MC
Prepare for installation of plant support	SP
Install plant support	IS
Maintain plant support	PM
Perform post-plant support activities	PL
Mow lawn grass	MG
Irrigate lawn	IL
Fertilize lawn	FL
Control pests	PT
Control weeds	WE
Identify requirements for removal and re-planting of landscape plants	PA
Prepare for removal and replacement of landscape plants	PR
Conduct removal and disposal of landscape plants	LP
Prepare land / soil for re-planting	SR
Select right species and size of landscape plants for replacement	ST
Conduct re-planting activity	CA
Perform post-removal and re-planting activities	MP

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 Agri-Fishery Arts specialization and those that have pre-requisites. Curriculum Maps may be modified according to specializations offered by a school.

**K to 12 BASIC EDUCATION CURRICULUM
 JUNIOR HIGH SCHOOL TECHNOLOGY AND LIVELIHOOD EDUCATION AND SENIOR HIGH SCHOOL TECHNICAL-VOCATIONAL-LIVELIHOOD TRACK
 AGRI-FISHERY ARTS – LANDSCAPE INSTALLATION AND MAINTENANCE
 SAMPLE AGRICULTURE AND FISHERY ARTS CURRICULUM MAP**

No.	Grade 7/8 (Exploratory)	Grade 9	Grade 10	Grade 11	Grade 12	
1	EXPLORATORY	Crop Production (NC I)	4 semesters	*Landscape Installation and Maintenance (NC II)		
2				4 semesters		
3				*Pest Management (NC II)		
4				4 semesters		
5				*Rice Machinery Operation (NC II)		
6		4 semesters				
7		*Organic Agriculture (NC II)		4 semesters		
8		Animal Production (NC II)		6 semesters	*Artificial Insemination: Swine (NC II) 2 sems	
9		6 semesters			*Artificial Insemination: Ruminants (NC II) 2 sems	
10		6 semesters			*Slaughtering Operation (NC II) 2 sems	
11		4 semesters		Horticulture (NC II)		8 semesters
12		4 semesters		Food (Fish) Processing (NC II)		8 semesters
13		4 semesters		Aquaculture (NC II)		8 semesters
13	*Fish Wharf Operation (NC I)		2 sems			

*Please note that these subjects have prerequisites mentioned in the CG.