

**K to 12 BASIC EDUCATION CURRICULUM**  
**SENIOR HIGH SCHOOL TECHNICAL-VOCATIONAL-LIVELIHOOD TRACK**  
**AGRI-FISHERY ARTS – ARTIFICIAL INSEMINATION: SWINE**

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

	<b>Specialization</b>	<b>Number of Hours</b>	<b>Pre-requisite</b>
1.	Animal Production (NC II)	480 hours	
2.	Aquaculture (NC II)	320 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 Nursery Operation (NC II)	160 hours	
7.	Fish or Shrimp Grow Out Operation (Non NC)	160 hours	Aquaculture
8.	Fish Wharf Operation (NC I)	160 hours	Fish or Shrimp Grow Out Operation
9.	Food (Fish) Processing (NC II)	640 hours	
10.	Horticulture (NC II)	640 hours	
11.	Landscape Installation and Maintenance (NC II)	320 hours	Crop Production
12.	Organic Agriculture (NC II)	320 hours	Crop Production
13.	Pest Management (NC II)	320 hours	Crop Production
14.	Rice Machinery Operation (NC II)	320 hours	Crop Production
15.	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.	Household Services (NC II)	320 hours	40 hours of the subject during exploratory Grade 7/8
15.	Housekeeping (NC II)	160 hours	
16.	Tailoring (NC II)	320 hours	40 hours of the subject during exploratory Grade 7/8
17.	Tour Guiding Services (NC II)	160 hours	
18.	Tourism Promotion Services (NC II)	160 hours	
19.	Travel Services (NC II)	160 hours	
20.	Wellness Massage (NC II)	160 hours	

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

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**AGRI-FISHERY ARTS – ARTIFICIAL INSEMINATION: SWINE**  
(160 hours)

**Course Description:**

**Prerequisite:** Animal Production

This module is an **ADVANCED** component of **Senior High School AFA – Animal Production** which leads to an **Artificial Insemination-Swine** National Certificate Level II (**NC II**). It covers **four** core competencies that a high school student ought to possess: (1) confirm readiness of sow/gilt for artificial insemination, (2) collect boar semen, (3) perform artificial insemination on sow/gilt, and (4) prepare documentation and reports on sow/gilt artificial insemination activities.

The preliminaries of this advanced course include the following: (1) discussion on the relevance of the course, (2) explanation of key concepts relative to the course, and (3) exploration on career opportunities.

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
<b>Introduction</b> 1. Basic concepts in artificial insemination (AI) of swine 2. Relevance of the course 3. Career opportunities	The learner demonstrates an understanding of the basic concepts and underlying theories in swine AI.	The learner independently performs core competencies in the artificial insemination of swine as prescribed by TESDA Training Regulations.	1. Explain basic concepts in swine AI 2. Discuss the relevance of the course 3. Explore career opportunities in Swine AI as a technician	
<b>LESSON 1: ARTIFICIAL INSEMINATION - SWINE</b> ( <i>Note: Research components should be included in all activities</i> )				
1. Validate information on animal 2. Body Condition Scoring 3. Estrus Management	The learner demonstrates an understanding of confirming the readiness of sow gilt for AI.	The learner independently confirms readiness of sow / gilt for AI.	<b>LO1. CONFIRM READINESS OF SOW/GILT FOR ARTIFICIAL INSEMINATION</b> 1.1 Collect information on the readiness of sow/gilt for artificial insemination in a clear and logical sequence 1.2 Record client's and animal's profile using the prescribed forms and in accordance with standard operating procedure 1.3 Transact and coordinate in accordance to communication etiquette. 1.4 Make an accurate interpretation and decision based on the gathered information 1.5 Evaluate physical condition of the animal based on recommended standards 1.6 Confirm signs of estrus 1.7 Conduct heat detection to	<b>TLE_AFPAAIS9-12VSE-Ia-d-1</b>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			determine if the animal is on standing heat 1.8 Perform task without causing injury to the animal, technician and others 1.9 Make an accurate interpretation and decision based on the result of the actual heat detection.	
1. Pre- collection Routines 2. Collection of boar semen 3. Semen Handling and Storage	The learner demonstrates an understanding of the process of boar semen collection.	The learner independently collects semen from the boar.	<b>LO2. COLLECT BOAR SEMEN</b> 2.1 Clean and dry boar according to hygiene and safety requirements 2.2 Prepare AI paraphernalia according to standard procedure 2.3 Perform preparatory activities for semen collection in accordance with hygiene and safety requirements 2.4 Lead boar to the collecting pen 2.5 Remove preputial fluid according to procedure 2.6 Massage penile area to encourage ejaculation of semen 2.7 Collect semen according to standard procedure 2.8 Evaluate semen to determine semen quality 2.9 Accomplish and file required form for semen collection 2.10 Perform semen collection with caution to ensure safety of the boar, technician and other individuals 2.11 Transfer collected semen to pre-warmed <i>semen bottles</i> . 2.12 Pack semen properly according to required temperature	<b>TLE_AFPAAIS9-12PCS-I-e-j-2</b>

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<b>CONTENT</b>	<b>CONTENT STANDARD</b>	<b>PERFORMANCE STANDARD</b>	<b>LEARNING COMPETENCIES</b>	<b>CODE</b>
1. Pre – Insemination Procedure 2. Actual Insemination 3. Post – insemination Routines	The learner demonstrates an understanding in performing AI on a sow or gilt.	The learner independently performs AI on sow/gilt.	<b>LO3. PERFORM ARTIFICIAL INSEMINATION ON SOW/GILT</b> 3.1 Secure semen to be used based on clients’ requirements/requests 3.2 Prepare AI paraphernalia in accordance with established procedure. 3.3 Perform preparatory activities for AI in accordance with hygiene and safety requirements 3.4 Stimulate sow/gilt prior to AI 3.5 Perform cleaning of the external genitalia using suitable materials 3.6 Deposit semen into the female reproductive tract following recommended procedure 3.7 Perform waste disposal according to existing environmental regulations 3.8 Perform task without causing injury to the animal, technician and others 3.9 Advise clients about the management of animals after AI 3.10 Document AI activities using prescribed forms	<b>TLE_AFPAAIS9-12PAP-II-a-g-3</b>

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<b>CONTENT</b>	<b>CONTENT STANDARD</b>	<b>PERFORMANCE STANDARD</b>	<b>LEARNING COMPETENCIES</b>	<b>CODE</b>
1. Collection and processing of data 2. Accomplish and submit forms	The learner demonstrates an understanding of preparing documents and reports on sow and gilt AI activities.	The learner independently prepares the documents and reports on sow and gilt AI activities.	<b>LO4. PREPARE DOCUMENTATIONS AND REPORTS ON SOW/GILT ARTIFICIAL INSEMINATION (AI) ACTIVITIES</b> 4.1. Secure necessary forms 4.2. Collect and process data as required in the forms 4.3. Secure evidence for breed registry (applicable to technicians of private farms) 4.4. Accomplish and submit forms to local government unit 4.5. Prepare and submit summary using required forms 4.6. Keep and compile file copies of accomplished forms and summary report according to required filing procedures	<b>TLE_AFPAAIS9-12CA-II-h-j-4</b>

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GLOSSARY**

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**CODE BOOK LEGEND**

**Sample: TLE\_AFPAAIS9-12CA-II-h-j-4**

LEGEND		SAMPLE	
<b>First Entry</b>	Learning Area and Strand/ Subject or Specialization	Technology and Livelihood Education_Agri-Fishery Animal Production	<b>TLE_AF PA AIIS 9-12</b>
	Grade Level	Grade 9/10/11/12	
<b>Uppercase Letter/s</b>	Domain/Content/ Component/ Topic	Raise Large Ruminant (Beef Cattle)	<b>CA</b>
			<b>-</b>
<b>Roman Numeral</b> <i>*Zero if no specific quarter</i>	Quarter	Fourth Quarter	<b>II</b>
<b>Lowercase Letter/s</b> <i>*Put a hyphen (-) in between letters to indicate more than a specific week</i>	Week	Week Four	<b>h-j</b>
			<b>-</b>
<b>Arabic Number</b>	Competency	Implement herd health program	<b>4</b>

DOMAIN/ COMPONENT	CODE
Personal Entrepreneurial Skills	PECS
Environment and Marketing	EM
Validate information on animal Body Condition Scoring Estrus Management	VSE
Pre- collection Routines Collection of boar semen Semen Handling and Storage	PCS
Pre – Insemination Procedure Actual Insemination Post – insemination Routines	PAP
Collection and processing of data Accomplish and submit forms	CA

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.

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 SAMPLE AGRICULTURE AND FISHERY ARTS CURRICULUM MAP**

No.	Grade 7/8 (Exploratory)	Grade 9	Grade 10	Grade 11	Grade 12
1	<b>EXPLORATORY</b>	<b>Crop Production (NC I)</b>	<b>4 semesters</b>	<b>*Landscape Installation and Maintenance (NC II)</b>	
2				<b>4 semesters</b>	
3				<b>*Pest Management (NC II)</b>	
4				<b>4 semesters</b>	
5				<b>*Rice Machinery Operation (NC II)</b>	
6		<b>4 semesters</b>			
7		<b>Animal Production (NC II)</b>		<b>*Artificial Insemination: Swine (NC II)</b>	
8				<b>2 sems</b>	
9				<b>*Artificial Insemination: Ruminants (NC II)</b>	
10		<b>2 sems</b>		<b>*Slaughtering Operation</b>	
11		<b>2 sems</b>		<b>8 semesters</b>	
12		<b>Horticulture (NC II)</b>		<b>8 semesters</b>	
13		<b>4 semesters</b>		<b>Food (Fish) Processing (NC II)</b>	
14	<b>8 semesters</b>		<b>8 semesters</b>		
15	<b>Aquaculture (NC II)</b>		<b>Fish Nursery Operation (NC II)</b>		
16	<b>4 semesters</b>		<b>2 sems</b>		
17	<b>4 semesters</b>		<b>*Fish or Shrimp Grow Out Operation (Non NC)</b>		
18			<b>2 sems</b>		
19	<b>4 semesters</b>		<b>*Fish Wharf Operation (NC I)</b>		
20			<b>2 sems</b>		

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