

K to 12 TECHNOLOGY AND LIVELIHOOD EDUCATION

**AGRICULTURE/FISHERY - ANIMAL PRODUCTION
(Exploratory)**

Content Standard	Performance Standard	Learning Competencies	Project/ Activities	Assessment	Duration
LESSON 1: USE FARM TOOLS AND EQUIPMENT					
<p><i>Demonstrate understanding of/on:</i></p> <ul style="list-style-type: none"> • Farm tools <ul style="list-style-type: none"> ➢ Power tools ➢ Handheld tools • Safety practices during operations of farm tools 	<ol style="list-style-type: none"> 1. Appropriate farm tools are identified according to requirements/use. 2. Farm tools are checked for faults and defective tools are reported in accordance with farm procedures. 3. Appropriate tools are safely used according to job requirements and manufacturers' conditions. 	<p>LO1. Select and use farm tools.</p>	<ol style="list-style-type: none"> 1. Identifying farm power tools and handheld tools and their uses. 2. Observing farm and taking pictures regarding safety practices in poultry and livestock facilities. 	<ul style="list-style-type: none"> • Written test • Performance Test 	<p>4 hours</p>
<ul style="list-style-type: none"> • Manual of farm equipment and specifications • Parts and functions of farm equipment • Facilities in poultry and livestock farm • Pre-operation and check-up • Safety practices in using farm equipment 	<ol style="list-style-type: none"> 1. Appropriate farm equipment and facilities are identified 2. Instructional manual of farm equipment are carefully read prior to operation. 3. Pre-operation check-up is conducted in line with manufacturers' manual. 4. Faults in farm equipment and facilities are identified and reported in line with farm procedures. 5. Farm equipment are used according to its function. 6. Safety procedures are followed. 	<p>LO2. Select and operate farm equipment.</p>	<ol style="list-style-type: none"> 1. Making pictorial reports on farm equipment run by electricity and motorized equipment. 2. Operate farm equipment using mock up. 	<ul style="list-style-type: none"> • Written test • Performance Test 	<p>4 hours</p>

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<p><i>Demonstrate understanding of/on:</i></p> <ul style="list-style-type: none"> Preventive maintenance Safety measures and practices in cleaning and storing for different farm tools, equipment and facilities. Upkeep of equipment 	<ol style="list-style-type: none"> Tools and equipment are cleaned immediately after use in line with farm procedures. Routine check-up and maintenance are performed. Tools and equipment are stored in designated areas in line with farm procedures. 	<p>LO3. Perform preventive maintenance.</p>	<ol style="list-style-type: none"> Cleaning and storing tools and equipment. 	<ul style="list-style-type: none"> Written Examination Performance Test 	<p>4 hours</p>
<p>LESSON 2: PERFORMING ESTIMATION AND BASIC CALCULATION</p>					
<ul style="list-style-type: none"> Problem solving procedures Basic mathematical operations 	<ol style="list-style-type: none"> Job requirements are identified . Quantities of materials and resources required to complete a work task are estimated. Time needed to complete a work activity is estimated. Accurate estimate for work completion are made. Estimate of materials and resources are reported to appropriate person/s. 	<p>LO1. Perform estimation.</p>	<ol style="list-style-type: none"> Making a research work by interviewing farm owner about estimating the number of materials needed to house 50 heads of chicken, 3 heads of goat and 2 heads of cattle. 	<ul style="list-style-type: none"> Written Examination Performance Test 	<p>4 hours</p>
<ul style="list-style-type: none"> Basic mathematical operations Systems of measurement Units of measurement 	<ol style="list-style-type: none"> Calculations to be made are identified according to job requirements. Correct method of calculation 	<p>LO2. Perform basic workplace calculations.</p>	<ol style="list-style-type: none"> Making a program of work and schedule and its cost estimate. Performing feed 	<ul style="list-style-type: none"> Written Examination Performance Test 	<p>4 hours</p>

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<p><i>Demonstrate understanding of/on:</i></p> <ul style="list-style-type: none"> • Conversion of units • Fractions and decimals • Percentages and ratios • Basic record keeping 	<p>is determined.</p> <ol style="list-style-type: none"> 3. Systems and units of measurement to be followed are ascertained. 4. Calculations needed to complete work task are performed using the four basic mathematical operations. 5. Appropriate operations are used to comply with the instructions. 6. Results obtained are reviewed and thoroughly checked. 		<p>conversion rate.</p>		
LESSON 3: INTERPRETING PLANS AND DRAWINGS					
<ul style="list-style-type: none"> • Identifying types of housing for poultry and livestock production. • Different components of housing of poultry and livestock production • Illustrating the different types of housing for poultry and livestock. 	<ol style="list-style-type: none"> 1. Types of housing and their components used in poultry and livestock are identified 2. Designs of different housing used in poultry and livestock are drawn. 	<p>LO1. Draw lay-out plan of different types of housing.</p>	<ol style="list-style-type: none"> 1. Drawing the different types of poultry and barn houses with their different components. 	<ul style="list-style-type: none"> • Written Examination • Performance Test 	<p>4 hours</p>

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<p><i>Demonstrate understanding of/on:</i></p> <ul style="list-style-type: none"> Basic building codes in constructing poultry and livestock houses. Signs and symbols on building codes 	<ol style="list-style-type: none"> Building codes in constructing poultry and livestock houses are discussed. Signs and symbols of building codes are interpreted 	<p>LO2. Enumerate the Building Codes in Constructing Poultry and Livestock Houses.</p>	<ol style="list-style-type: none"> Research work on different building code in poultry and livestock production with signs and symbols being used. 	<ul style="list-style-type: none"> Written Examination Performance Test 	4 hours
LESSON: APPLYING SAFETY MEASURES IN FARM OPERATIONS					
<ul style="list-style-type: none"> Using chemicals in farm works. Personal protective equipment (PPE) used in farms Basic first aid Farm emergency procedures regarding safety working environment 	<ol style="list-style-type: none"> Safety measures are applied based on work requirement and farm procedures. Tools and materials are utilized in accordance with specification and procedures. Outfit is worn in accordance with farm requirements. Shelf life and or expiration of materials are effectively checked against manufacturer's specifications. Hazard in the workplace are identified and reported in line with farm guidelines. 	<p>LO1. Apply appropriate safety measures while working in the farm.</p>	<ol style="list-style-type: none"> Demonstrating or simulating proper use of PPE, hazardous chemicals. Role playing an emergency scene to apply first aid procedures and critique the role play. 	<ul style="list-style-type: none"> Written Examination Performance Test 	4 hours
<ul style="list-style-type: none"> Procedure in cleaning outfits Technique in storing materials and chemicals 	<ol style="list-style-type: none"> Used tools and outfit are cleaned stored in line with farm procedures. 	<p>LO2. Safely keep/ dispose materials and outfit.</p>	<ol style="list-style-type: none"> Performing proper cleaning, storing and labeling tools, materials and chemicals. 	<ul style="list-style-type: none"> Written Examination Performance Test 	4 hours

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<p><i>Demonstrate understanding on:</i></p> <ul style="list-style-type: none"> • Government requirement regarding farm waste disposal • Waste management system 	<ol style="list-style-type: none"> 2. Unused materials are labeled and stored according to manufacturers recommendation and farm requirements. 3. Waste materials are disposed according to manufacturers, government and farm requirements. 		<ol style="list-style-type: none"> 2. Identify waste materials in your farm and perform proper disposal according to manufacturer's procedures and government requirement. 		
<ul style="list-style-type: none"> • Operational health and safety procedure, practices and regulations • Emergency-related drills and training 	<ol style="list-style-type: none"> 1. Procedures in emergency related drill are strictly followed in line with the established organization guidelines and procedures. 2. OHS personal records are filled up in accordance with workplace requirements. 	<p>LO3. Maintain occupational health and safety awareness.</p>	<ol style="list-style-type: none"> 1. Role playing in applying emergency procedures. 	<ul style="list-style-type: none"> • Written Examination • Performance Test 	<p>4 hours</p>
					<p>40 hours</p>