



Animal production Level

NTQF Level -II

Learning Guide 40

Unit of Competence: Contribute sericulture development

Module Title: Contributing sericulture development

LG Code: AGR APR2 M12 L03 LG40

TTLM Code: AGR APR 2 TTLM 0919v1

LO3. Handle and clean materials, tools and equipment



Instruction Sheet	Learning Guide 40
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This learning guide is developed to provide you the necessary information regarding the following content coverage and topics –

- Handling waste material produced during work
- Handling and transporting Materials, tools and equipment
- Cleaning and maintaining work site
- Storing and disposing of materials
- Reporting work outcomes to supervisor and receiving feedbacks

This guide will also assist you to attain the learning outcome stated in the cover page.

Specifically, upon completion of this Learning Guide, you will be able to –

- Handle waste material produced during work
- Handle and transporting Materials, tools and equipment
- Clean and maintain work site
- Store and dispose of materials
- Report work outcomes to supervisor and receive feedbacks

Learning Instructions:

1. Read the specific objectives of this Learning Guide :
2. Follow the instructions described in number 1 to 6.
3. Read the information written in the “Information Sheet (1, 2,3,4, and 5) in page 2,6,8 and 10 respectively
4. Try to understand what are being discussed. Ask you teacher for assistance if you have hard time understanding them.
5. Accomplish the “**Self-check 1, Self-check 2, Self-check 3” Self-check 4 and Self-check 5** in page 3, 5, 7, 9 and 11 respectively.
6. If you earned a satisfactory evaluation proceed to “the next topic”. However, if your rating is unsatisfactory, see your teacher for further instructions or read back the Learning guide information sheets 1-5. Submit your accomplished Self-check. This will form part of your training portfolio.

**Information sheet : 1****Handling Waste material produced during work**

Waste materials and debris produced during rearing silk worm includes:-

- Litter, sick and dead silkworms
- Dead larvae and pupae
- Broken and wasted rearing and farm items
- Plant debris
- Plastic, and paper-based materials
- Moulded skins

These needs day to day cleaning from the rearing room and storage in a designated area to sort out for recycling, re-using, returning to the manufacturer, or disposed of according to enterprise work procedure.



Self check : 1	Written test
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Name: _____

Date: _____

Directions: Answer all the questions listed below.

1. List down 5 common waste materials produced in sericulture development activities?
(5pts)

Note: Satisfactory rating – 5 points and above

Unsatisfactory - below 5 point

You can ask your instructor for the copy of the correct answer

Answer sheet

1.

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Information sheet : 2

Handling and transporting Materials, tools and equipment

Materials used for raising sericulture activity have to be handled and transported safely. Any sericulture farmer has to do this task safely because any damage will create inconvenience on the next use of the equipment, and also it will cause injury to silkworms.

All the materials and equipment used in sericulture farming should be handled and transported accordingly

Good handling measurements are:-

- Provide sanitation services to the working devices after and before work
- Maintaining identification and selection of functional equipment from non-functional ones.
- Apply the kaizen principle according to the sericulture farming disciplines
- Use safe and well organized storage for tools, equipment and materials.
- Use recommended transportation system as the transported materials nature.
- Make of care during loading and unloading of materials, equipment and tools



Self-Check -2	Written Test
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Directions: Answer all the questions listed below. Use the Answer sheet provided in the next page:

1. What are Good handling and transporting measurements of materials and equipment used in sericulture farming (5pts)

Note: Satisfactory rating – 5 points Unsatisfactory - below 5 points

You can ask you teacher for the copy of the correct answers.

Answer Sheet

Score = _____
Rating: _____

Name: _____

Date _____

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**Information sheet : 3****Cleaning and maintaining work site**

Work site have to be clean and safe for efficient work of employee. So any sericulture farmer or employee in sericulture farm has to keep sanitation of his/her work site which mean that he/she has to clean the work area after completing his/her task by doing these he/she can keep healthy himself/herself and staff members.

The work site should be clean and safe to conduct effective sericulture development activity.

The work area:

- Should be free from contaminants/chemicals
- Should be free from any obstacles causing injuries, death and etc
- Should be with the recommended temperature
- Should be well ventilated/ not suffocated
- Free from dirty or disposals wastes
- Far from noisy and disturbance
- Free from predators
- Remove the unhealthy larvae
- When the silkworms are moved off, the beds must be cleaned.



Self-Check -3	Written Test
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Directions: Answer all the questions listed below. Use the Answer sheet provided in the next page:

1. To conduct effective sericulture development activity, what are the sericulture development area /work site should looks like (5pts)

Note: Satisfactory rating – 5 points Unsatisfactory - below 5 points

You can ask you teacher for the copy of the correct answers.

Answer Sheet

Score = _____

Rating: _____

Name: _____

Date _____

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Information sheet : 4	Storing and disposing of materials
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The materials that are used in Seri-culture production areas should be returned to store after properly cleaned, disinfected and completion of work if the nature the materials is long-lasting. Or dispose if the materials are disposable in nature or any other chemicals, reagents etc.

There are different ways of avoiding those waste materials from our farm area.

- The first way is recycling/decompose that waste material in a usable form.

For example the litter and left over of leaves can be used as fertilizer for silkworm feed plant

- The second way is that of returning waste material such as old iron, thin, metal and plastic to manufacturers.
- The third way is that of re using waste material.



Self-Check -4	Written Test
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Directions: Answer all the questions listed below. Use the Answer sheet provided in the next page:

1. Write the different ways of avoiding those waste materials from sericulture development area (6pts)

Note: Satisfactory rating – 5 points Unsatisfactory - below 5 points

You can ask you teacher for the copy of the correct answers.

Answer Sheet

Score = _____
Rating: _____

Name: _____

Date _____

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Information sheet : 5	Reporting work outcomes to supervisor and receiving feedbacks
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After completing any work directed by supervisor any work outcome and work problem have to be reported to supervisor

Sericulture development activity should be reported daily, weekly, monthly and yearly to the concerned body as well as for documentation. It is important source of information and advice from someone who has collected and studied the farm profitability, in order to make decisions and take actions. Reports should be clear, understandable, and meaningful. The outcome measurement process have gone well, poorly reported information will discourage use or provide misleading information.

Some of the report in Sericulture rearing farm includes

- Health analysis/out breaks
- Profitability of the farm
- Production record report
- Reproduction record report
- Feeds and feeding report
- Material and tools record
- Weather condition and etc.



Self check-5	Written test
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Directions: Answer all the questions listed below. Use the Answer sheet provided in the next page:

1. List down some of the reports kept in sericulture rearing farm.(5pts)

Note: Satisfactory rating – 5 points Unsatisfactory - below 5 points

You can ask you teacher for the copy of the correct answers.

Answer Sheet

Score = _____
Rating: _____

Name: _____

Date _____

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References

Eri silk production in Ethiopia, the work shop oct. 2016, published by ICIPE, JICA & MoLF

Pallavi, S.N. and C.K. Kamble 1997. Disinfection and hygiene in sericulture – A review. *Sericologica* 37 (3): 401-415.