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Kagawasan Ave., Daro, Dumaguete City, Negros Oriental



TLE-IA-CARPENTRY

Quarter 3 – Module 1 (Week 1 to 2)

INSTALL WOODEN SCAFFOLDING



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TLE-IA-Carpentry 10
Alternative Delivery Mode
Quarter 3 – Module 1: Install Wooden Scaffolding
First Edition, 2020

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TLE-IA-CARPENTRY

Quarter 3 – Module 1: INSTALL WOODEN SCAFFOLDING (Scaffold Safety Rules)



Introductory Message

For the facilitator:

Welcome to the TLE-IA-CARPENTRY (Grade 10) Alternative Delivery Mode (ADM) Module on INSTALL WOODEN SCAFFOLDING (Scaffold Safety Rules).

This module was collaboratively designed, developed and reviewed by educators both from public and private institutions to assist you, the teacher or facilitator in helping the learners meet the standards set by the K to 12 Curriculum while overcoming their personal, social, and economic constraints in schooling.

This learning resource hopes to engage the learners into guided and independent learning activities at their own pace and time. Furthermore, this also aims to help learners acquire the needed 21st century skills while taking into consideration their needs and circumstances.

In addition to the material in the main text, you will also see this box in the body of the module:



Notes to the Teacher

This contains helpful tips or strategies that will help you in guiding the learners.










As a facilitator, you are expected to orient the learners on how to use this module. You also need to keep track of the learners' progress while allowing them to manage their own learning. Furthermore, you are expected to encourage and assist the learners as they do the tasks included in the module.



For the learner:

Welcome to TLE-IA-CARPENTRY (Grade 10) Alternative Delivery Mode (ADM) Module on INSTALL WOODEN SCAFFOLDING (Scaffold Safety Rules).

This module was designed to provide you with fun and meaningful opportunities for guided and independent learning at your own pace and time. You will be enabled to process the contents of the learning resource while being an active learner.

This module has the following parts and corresponding icons:

 <i>What I Need to Know</i>	This will give you an idea of the skills or competencies you are expected to learn in the module.
 <i>What I Know</i>	This part includes an activity that aims to check what you already know about the lesson to take. If you get all the answers correct (100%), you may decide to skip this module.
 <i>What's In</i>	This is a brief drill or review to help you link the current lesson with the previous one.
 <i>What's New</i>	In this portion, the new lesson will be introduced to you in various ways; a story, a song, a poem, a problem opener, an activity or a situation.
 <i>What is It</i>	This section provides a brief discussion of the lesson. This aims to help you discover and understand new concepts and skills.
 <i>What's More</i>	This comprises activities for independent practice to solidify your understanding and skills of the topic. You may check the answers to the exercises using the Answer Key at the end of the module.
 <i>What I Have Learned</i>	This includes questions or blank sentence/paragraph to be filled into process what you learned from the lesson.
 <i>What I Can Do</i>	This section provides an activity which will help you transfer your new knowledge or skill into real life situations or concerns.
 <i>Assessment</i>	This is a task which aims to evaluate your level of mastery in achieving the learning competency.

 <i>Additional Activities</i>	In this portion, another activity will be given to you to enrich your knowledge or skill of the lesson learned.
 <i>Answer Key</i>	This contains answers to all activities in the module.

At the end of this module you will also find:

References

This is a list of all sources used in developing this module.

The following are some reminders in using this module:

1. Use the module with care. Do not put unnecessary mark/s on any part of the module. Use a separate sheet of paper in answering the exercises.
2. Don't forget to answer *What I Know* before moving on to the other activities included in the module.
3. Read the instruction carefully before doing each task.
4. Observe honesty and integrity in doing the tasks and checking your answers.
5. Finish the task at hand before proceeding to the next.
6. Return this module to your teacher/facilitator once you are through with it.

If you encounter any difficulty in answering the tasks in this module, do not hesitate to consult your teacher or facilitator. Always bear in mind that you are not alone.

We hope that through this material, you will experience meaningful learning and gain deep understanding of the relevant competencies. You can do it!



What I Need to Know

A scaffolding is a temporary structure of wooden poles and planks providing platforms for workers to stand on while doing construction work. It is therefore used to reach those work areas which otherwise are too high for the carpenter. It is made up of rigid elevated platforms which ensure safety for the workers and serve as support for tools and materials.

There are two types of scaffolding, namely, single-pole and double-pole. A single-pole scaffolding is secured by being made to stand against the wall. This is mainly used by painter and other construction workers who use only light equipment. A double-pole scaffolding can stand alone. This is used when heavy equipment and materials are needed for construction.

You are required to go through a series of learning activities in order to complete the learning outcome **Lay Out and Assemble Scaffolds and Braces** of this module. In each learning outcome there are **information sheets**, and **activity sheets**. Follow these activities on your own and answer the Self-Check at the end of each learning activity.

The information content of this quarter is about the **wooden type of scaffolding and its safety rules**.

After going through this module, you are expected to:

- Prepare work areas for safe laying out and assembling of scaffolds and braces.
- Assemble scaffolds and braces safely and securely.
- Discuss how a scaffolding is made.
 - Free of Interference
 - Properly balance
- Secure connectors, locks and screws.
- Select appropriate Personal Protective Equipment (PPE)



What I Know

A. Modified True or False. Directions: Write **True** if the statement is correct and **False** if it is incorrect.

1. A scaffold is a permanent structure to ensure safety.
2. Assemblers of scaffoldings need not to be aware about its safe. Use as long as there are veteran workers in the area.
3. Do not work or allow persons to work on scaffolds when sick or suffering from any other physical symptom which could affect their ability to work safely.
4. Use ladders or makeshift devices.
5. Never place scaffolds on unstable surface where loose objects could tip, break, or become dislodged.

B. What are two types of scaffolding?

Lesson

1

Scaffolding Safety Rules



What's In

Write your answers in your notebook.

1. What is scaffolding?
2. Enumerate scaffold safety rules.
3. Two Types of scaffolding.



What's New

Scaffold is an elevated temporary structure having a platform used to support workers, equipment, and other materials.

Serious injury or death may result from improper assembly or use of scaffold equipment. Assemblers and users must be familiar with and must follow safe practice and observe the safety rules written below. These safety rules cover generalized situations only and should not be used to replace any other additional safety and precautionary measures that may be necessary to cover the many usual or unusual conditions encountered during installation or dismantling.

The rules are not intended to conflict with or supersede the requirements of the OH&S Laws or any other government regulations, codes, and rules; the user must refer to and comply with all such specific provisions of law.

Two Types of Scaffolding

- **SINGLE POLE SCAFFOLDING**
 - - is secured by being ***made to stand against the wall***. this is ***mainly used by painters*** and other construction workers who use only light equipment.
- **DOUBLE POLE SCAFFOLDING**
 - - double pole scaffolding ***can stand alone***. this is used when heavy equipment and materials are needed for construction.



What Is It

Scaffold Safety Rules

- A. **Follow safe practice of the safety rules** and comply with OH & S laws, and local rules, codes, and regulations pertaining to scaffolding during any use of the equipment.
- B. The potentially hazardous nature of scaffolding assembly makes it important that all personnel assigned to this work be instructed in these safety rules, safe practices and procedures, and be under the supervision of an experienced person. Ensure that these safety rules are posted and that **all assemblers and users of the scaffold are aware of and follow them.**
- C. **Report any unsafe conditions to supervisors.** Do not work or allow persons to work on scaffolds when sick or suffering from dizziness, unsteadiness, or any physical symptom which could affect their ability to work safely.

- D. **Inspect all equipment before use.** Never use any equipment which is damaged, defective, or deteriorated in any way.
- E. **Inspect assembled scaffold frequently and be sure that is maintained in a safe condition;** ensure that the scaffold connection has not loosened and that components have not been improperly released or removed.
- F. **Maintain all equipment in good condition.** Never use corroded or excessively rusted equipment; the strength of such equipment is not known.
- G. **Consult your scaffolding supplier when in doubt.** Never take chances.
- H. **Always read these safety rules in conjunction with all safety regulations.**
- I. **Always place scaffolds on a ground, stable surface and assure that it is adequate to support the intended scaffold loads.** Never place scaffolds on unstable surface where loose objects could tip, break or become dislodged.
- J. **Lift and lower components carefully and safely;** use tag lines where appropriate to the handling method. Never allow excessive quantities of components to be stockpiled on partially complete scaffolds.
- K. **The tying of the scaffold to the structure is of great importance to the stability and safety of the scaffold.** Assure that the structure to which the scaffold is tied or anchored is capable of safety of the scaffold.
- L. **Free standing scaffolds other than wall scaffolds must be restrained from tipping** by guying or other means or otherwise stabilized as appropriate, recognizing that stability is essential to the safety of the scaffold.
- M. **Install guardrails, mid-rails, and toe – boards at all openings, open sides, and ends of every work platform.**
- N. **Never use ladders or makeshift devices on top of scaffolds to increase the height.** Never place or stand a plank on guardrails.
- O. **Powerlines near scaffolds are dangerous.** Use extreme caution and consult the electrical company to have the lines de-energized and insulated to ensure safety. Never allow any installation or use of scaffolds until this is completed.
- P. **When any cantilevers are used, such as brackets, etc. proper care and precautions must be taken to prevent tipping of the scaffold.**



What's More

Answer this activity in your activity notebook. (10 points each)

1. What is the most important thing to consider in performing or installing wooden scaffolding? Why? Support your answer.
2. Cite at least to 2 example that strengthen your answer in number one.



What I Have Learned

Reading books and watching videos have been considered as one of the most effective educational activities that help learners deepen their understanding of certain topics. In this particular circumstance, you will be asked to conduct extra readings and video viewings on the following topics.

- a) What is scaffolding?
- b) What are scaffold safety rules?
- c) What are the two types of scaffolding?



What I Can Do

After successfully performing the assigned task from what I have learned, enumerate the safety rules that you observed to be followed in installing wooden scaffolding in your activity notebook.



Assessment

A. Modified True or False:

Direction: Write **True** if the statement is correct and **False** if it is incorrect.

1. A scaffold is a permanent structure installed to ensure safety.
2. Assemblers of scaffoldings need not be aware about its safe use as long as there are knowledgeable workers in the area.
3. Do not work or allow persons to work on scaffolds when sick or suffering from any other physical symptom which could affect their ability to work safely
4. Use ladders or makeshift devices on top of scaffolds to increase the height.
5. Never place scaffolds on unstable surface where loose objects could tip, break, or become dislodged.
6. Install, guardrails, mid-rails, and toe – boards at all openings, open sides, and ends of every work platform.
7. Do not inspect assembled scaffolds frequently.
8. Never allow excessive quantities of components to be stockpiled on partially completed scaffolds.
9. When any cantilevers are used, such as brackets, proper care and precautions must be taken to prevent tipping of the scaffold.
10. Free standing scaffolds other than wall scaffolds must be restrained from tipping by guying or other means.

B. Differentiate **single pole scaffolding** from **double pole scaffolding**.



Answer Key

What I Know

What's more

Answer may vary

What I can Do

Answer may vary

A.

1. True

2. False

3. True

4. False

5. True

B.

Single Pole Scaffolding
Double Pole Scaffolding

Assessment

1. True

2. False- all assemblers and users of the scaffold are aware of and follow them

3. True

4. False-never use ladders or makeshift devices on top of scaffold to increase the height

5. True

6. True

7. False-inspect assembled scaffold frequently

8. True

9. True

10. True

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