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TLE-IA-CARPENTRY

Quarter 4 – Module 3 (Week 5&6)

IDENTIFY FORMWORKS

STRIPPING/REMOVAL PROCEDURES



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TLE-IA-Carpentry 10
Alternative Delivery Mode
Quarter 4 – Module 3: Identify Formworks Stripping/Removal Procedures
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Secretary: Leonor Magtolis Briones
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Development Team of the Module

Writer: Romel U. Magdasal

Editors: Howel Jay M. Caluyo, Dennis S. Calinao

Reviewers: Alden B. Deguit, John Paul Jeremiah B. Teves

Typesetter: Alden B. Deguit

Layout Artist: Alden B. Deguit

Management Team: Senen Priscillo P. Paulin, CESO V

Rosela R. Abiera

Joelyza M. Arcilla EdD

Maricel S. Rasid

Marcelo K. Palispis EdD

Elmar L. Cabrera

Nilita R. Ragay EdD

Antonio B. Baguio Jr. EdD

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Department of Education –Region VII Schools Division of Negros Oriental

Office Address: Kagawasan, Ave., Daro, Dumaguete City, Negros Oriental

Tele #: (035) 225 2376 / 541 1117

E-mail Address: negros.oriental@deped.gov.ph

TLE-IA-CARPENTRY

Quarter 4 – Module 3: IDENTIFY FORMWORKS STRIPPING/REMOVAL PROCEDURES





What I Need to Know

In this module you will learn more about Formworks Stripping/Removal Procedures in **CARPENTRY**.

After going through this module, you are expected to:

- Learn about the formwork stripping procedures.
- Learn about the period of removal of formwork.



What I Know

Direction: Write your answers in a sheet of paper.

- When is it safe to start a stripping procedure?

Lesson	FORMWORKS STRIPPING/REMOVAL PROCEDURES
1	



What's In

Write your answers in a sheet of paper.

- What are the different installation procedures of formworks components??



What's New

When is it safe to start the stripping procedures?

The forms or moulds that holds the concrete in place until it dries should be left alone for at least two days to ensure that the concrete has cured. If the forms are removed too soon, the concrete can begin to sag, crack and collapse.



What Is It

FORMWORK STRIPPING PROCEDURES

To start the formwork stripping procedure, you need a qualified contractor to follow the following steps:

- Allow the concrete to dry before removing the forms. You'll want the concrete to be hard and strong so that removing the forms does not result in a sagging surface. Allow the concrete to cure overnight.
- Remove forms starting at the top of sloping slabs. Use a hammer to remove nails from the stakes holding the forms in place.
- Remove the stakes from the ground that support the forms with a stake puller to avoid damaging the stakes or the forms.
- Pull the forms away from the side of the concrete slab using as little force as possible. If a form sticks to the slab or is difficult to remove, use the pry bar to pry the form upward from the ground, loosening the form from the concrete in the process. Pull the loosened form from the concrete. Be careful not to gouge the slab with the pry bar in the process.
- Remove forms on alternating sides of the slab to maintain the structural balance. For example, with a square slab start at the upper left corner, then remove the form from the lower right corner, then the upper right followed by lower left. Remove all forms in this manner. If the forms are reusable, clean them and store them in dry place. Otherwise dispose the forms.

Period Of Deshuttering Of Formwork

Concrete Formwork Removal Time

For Column, Slab, Beam & Staircase



What's More

Period of Removal of Formworks / Stripping Time

Forms can be removed / stripped after the following periods:

1. **For walls, columns and vertical sides of beams** – 24 to 48 hours as may be according to site condition recommended by engineer-in-charge
2. **In Slabs soffits (props left under)** – 3 days
3. **In Beam soffits (props left under)** – 7 days
4. **Removal of props to slabs:**
 - **For slab spanning up to 4.5 meters** – 7 days
 - **For slab spanning over 4. 5 meters** – 14 days
5. **In the beams and arches props can be removed as:**
 - **For member spanning up to 6 meters** – 14 days
 - **For member spanning over 6 meters** – 21 days



What I Have Learned

Direction: Supply a word or group of words to make the sentence correct. Write in your answer in a sheet of paper.

1. Allow the concrete to _____ before removing the forms.
2. Remove forms starting at the _____ of sloping slabs.
3. Remove the stakes from the ground that support the forms with a _____ to avoid damaging the stakes or the forms.
4. Remove forms on _____ of the slab to maintain the structural balance.



What I Can Do

Activity

In a sheet of bond paper, make a research or interview a certain carpenter/s about the period of removal of formworks using the following formats:

PERIOD OF REMOVAL OF FORMWORKS

Name of Carpenter/s	Walls, Columns and vertical sides of Beams	No. of Hours



Assessment

A. Supply a word or group of words to make the sentence correct. Write your answers in a sheet of paper.

1. Allow the concrete to _____ before removing the forms.
2. Remove forms starting at the _____ of sloping slabs.
3. Remove the stakes from the ground that support the forms with a _____ to avoid damaging the stakes or the forms.
4. Remove forms on _____ of the slab to maintain the structural balance.

B. Directions: Supply what is missing. Write your answers in a sheet of paper.

Forms	Period/s
Walls, columns and vertical sides of beams	
Slabs soffits (props left under)	
Beam soffits (props left under	
For slab spanning over 4. 5 m	
For member spanning up to 6 m	



Answer Key

What I Know

Answer may vary

What I Have Learned

1. Dry
2. Top
3. Stake puller
4. Alternating sides

Assessment

A.

1. Dry
2. Top
3. Stake puller
4. Alternating sides

B.

1. 24 to 48 hours (1 to 2 days)
2. 3 days
3. 7 days
4. 14 days
5. 14 days

References:

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For inquiries or feedback, please write or call:

Department of Education – Schools Division of Negros Oriental
Kagawasan, Avenue, Daro, Dumaguete City, Negros Oriental

Tel #: (035) 225 2376 / 541 1117

Email Address: negros.oriental@deped.gov.ph

Website: lrmds.depednodis.net

