

Course Title: **CARPENTRY**

NC Level: **NC II**

Nominal Training Duration: **120 Hours**

Course Description:

The core competencies covers the competency on stake-out building lines, fabricate formworks, install/strip form works, install framing works, install architectural ceiling/wall sheats/panels and floor finishes and fabricate/install door/window jambs and panels.

CORE COMPETENCIES

Unit of Competency	Learning Outcomes	Methodology	Assessment Approach
1. Prepare / Stake-out building lines.	1.1 Use appropriate PPE. 1.2 Interpret construction plans and details. 1.3 Identify construction symbols 1.4 Prepare construction tools, equipment and materials. 1.5 Mark-out location of batterboard in accordance with plans and details 1.6 Set-up batterboard securely. 1.7 Mark and set building lines securely 1.8 Observe safety practices in staking-out building lines. 1.9 Unexpected situations are responded accordingly	Audio Visual Simulation Discussion Practical Lab Demonstration	Observation Questioning Written Test Demonstration

Unit of Competency	Learning Outcomes	Methodology	Assessment Approach
2. Fabricate formworks	<p>2.1 Use appropriate PPE</p> <p>2.2 Interpret construction plans and details.</p> <p>2.3 Identify construction symbols</p> <p>2.4 Prepare construction tools, equipment and materials.</p> <p>2.5 Lay-out and cut formworks according to plans and details.</p> <p>2.6 Fabricate formworks in accordance with plans and details.</p> <p>2.7 Check and fix fabricated formworks for levelness, alignment, squareness and control dimension to specified tolerance.</p> <p>2.8 Observe safety practices in fabricating formworks.</p> <p>2.9 Unexpected situations are responded accordingly</p>	<p>Audio Visual</p> <p>Simulation</p> <p>Discussion</p> <p>Practical Lab</p> <p>Demonstration</p>	<p>Observation</p> <p>Questioning</p> <p>Written Test</p> <p>Demonstration</p>

Unit of Competency	Learning Outcomes	Methodology	Assessment Approach
3. Install formworks components	<p>3.1 Use appropriate PPE.</p> <p>3.2 Select and prepare tools and equipment for installing formworks components.</p> <p>3.3 Apply proper procedures in laying-out scaffolds. (e.g. height and span requirements)</p> <p>3.4 Lay-out scaffolds and braces according to job requirements.</p> <p>3.5 Erect shores, braces prior to installation of form panels.</p> <p>3.6 Set, fix and erect form panels of building components according job requirements.</p> <p>3.7 Removed waste materials, used form panels and scaffolds according to established operating standards.</p> <p>3.8 Clean/maintain/store tools and equipments as required.</p> <p>3.9 Unexpected situations are responded accordingly</p>	<p>Audio Visual</p> <p>Simulation</p> <p>Discussion</p> <p>Practical Lab</p> <p>Demonstration</p>	<p>Observation</p> <p>Questioning</p> <p>Written Test</p> <p>Demonstration</p>

Unit of Competency	Learning Outcomes	Methodology	Assessment Approach
4. Strip formworks components	<p>4.1 Use appropriate PPE.</p> <p>4.2 Select and prepare tools and equipment for stripping formworks components.</p> <p>4.3 Strip form panels following standard stripping procedures in line with the job requirements.</p> <p>4.4 Apply proper procedures in dismantling scaffolds.</p> <p>4.5 Erect shores, braces prior to installation of form panels.</p> <p>4.6 Removed waste materials, used form panels and scaffolds according to established operating standards.</p> <p>4.7 Clean/maintain/store tools and equipments as required.</p> <p>4.8 Unexpected situations are responded accordingly.</p>	<p>Audio Visual</p> <p>Simulation</p> <p>Discussion</p> <p>Practical Lab</p> <p>Demonstration</p>	<p>Observation</p> <p>Questioning</p> <p>Written Test</p> <p>Demonstration</p>

Unit of Competency	Learning Outcomes	Methodology	Assessment Approach
5. Installing framing works	5.1 Use appropriate PPE. 5.2 Select and prepare tools, materials and equipment for framing works. 5.3 Identify standard floor joist on-center spacing. 5.4 Demonstrate proper procedures in installing floor joist. 5.5 Lay-out and mark position of floor joist on the girders in line with plans and details. 5.6 Lay-out floor joist and nail into position according to job requirements. 5.7 Bridge floor joist perpendicularly in accordance with working drawings and specifications. 5.8 Cut floor joist according to job requirements. 5.9 Identify wall requirements according to working drawings and details. 5.10 Lay-out and install sole plate and top plate according to job requirements. 5.11 Lay-out and install wall studs according to working drawings and specifications. 5.12 Fabricate trusses according to job requirements.	Audio Visual Simulation Discussion Practical Lab Demonstration	Observation Questioning Written Test Demonstration

Unit of Competency	Learning Outcomes	Methodology	Assessment Approach
	<p>5.13 Lay-out and install trusses according plans and specifications.</p> <p>5.14 Install purlins according to wording drawing and details.</p> <p>5.15 Lay-out and install fascia board according to job requirements.</p> <p>5.16 Identify ceiling requirements such as manhole, electrical outlets, ventilations, etc. according to job requirements.</p> <p>5.17 Install ceiling joist according to working drawings and specifications.</p> <p>5.18 Demonstrate safe and effective operational use of tools and equipment.</p> <p>5.19 Unexpected situations are responded accordingly</p>		