

SUPERSTRUCTURE WORKS

UNIT CODE: CON/CU/BUT/CR/03/4

RELATIONSHIP TO OCCUPATIONAL STANDARDS

This unit addresses the unit of competency: Perform superstructure works

DURATION OF UNIT: 140 hours

UNIT DESCRIPTION

This Unit describes the competencies required to perform superstructure works. It involves setting out and constructing superstructure columns, setting out and erecting superstructure walling, setting and constructing superstructure beams and setting and erecting building roofs

SUMMARY OF LEARNING OUTCOMES

1. Set out and construct superstructure columns
2. Set out and erect superstructure walling
3. Set and construct superstructure beams
4. Set and erect building roof

Learning Outcomes, Content And Suggested Assessment Methods

Learning outcome	Content	Suggested assessment methods
1. Set out and construct superstructure columns	<ul style="list-style-type: none">• Structural elements• Reinforcement steel• Formwork• Concrete materials• Concrete mix design• Concrete placement and compaction methods	<ul style="list-style-type: none">• Written assignments• Written Tests• Practical projects• Practical Tests• Oral questioning• Observation of work procedures
2. Set out and erect superstructure walling	<ul style="list-style-type: none">• Wall dimensions• Structure openings• Mortar materials and mixing• Wall screeding• Damp proofing• Bonding methods• Codes of practice	<ul style="list-style-type: none">• Written assignments• Written Tests• Practical projects• Practical Tests• Oral questioning

	<ul style="list-style-type: none"> • Wall construction • Occupational safety and health standards • Environment act and by laws 	<ul style="list-style-type: none"> • Observation of work procedures
3. Set and construct superstructure beams	<ul style="list-style-type: none"> • Beam formwork • Formwork props • Reinforcement steel • Concrete placement and compaction methods 	<ul style="list-style-type: none"> • Written assignments • Written Tests • Practical projects • Practical Tests • Oral questioning • Observation of work procedures
4. Set and erect building roof	<ul style="list-style-type: none"> • Types of roofs • Truss construction and installation • Roof material installation method 	<ul style="list-style-type: none"> • Written assignments • Written Tests • Practical projects • Practical Tests • Oral questioning • Observation of work procedures

Suggested Methods of Instruction:

- Demonstration by trainer
- Practical work by trainee
- Demonstration videos
- Projects
- Group discussions

Recommended Resources

Tools and equipment

- Builders square
- Builders line
- Plumb bob
- Poker vibrator
- Tape measure
- Hammer
- Nails
- Spade

- Trowel
- Concrete mixer
- Float
- Brush
- Spirit level
- Wheelbarrow

Materials and supplies

- Cement
- Water
- Sand
- Ballast
- Timber
- Damp proof materials
- Hessian cloth
- Reinforcement bars
- Steel
- Hoop iron
- BRC
- Masonry units
- Iron sheets
- Warning signs

Personal protective equipment (PPEs)

- Overall
- Helmet
- Safety boots
- Masks
- Gloves
- First aid kit
- Reflectors
- Safety goggles