

CONSTRUCT TEMPORARY WORKS

UNIT CODE: CON/OS/CAJ/CC/04/4/A

UNIT DESCRIPTION

This unit describes the competencies required to construct temporary works. It involves constructing and dismantling trench timbering, constructing and dismantling building formwork/shuttering, erecting, and dismantling scaffold, constructing and dismantling building shores,

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA <i>(Bold and italicized terms are elaborated in the Range)</i>
1. Construct and dismantle trench timbering	1.1 Personal protective equipment is selected, fitted and used according to safety rules and regulations 1.2 <i>Trench timbering materials and tools</i> are determined according to the construction rules and regulations 1.3 Trench timbering is constructed as per <i>soil type</i> and site topography 1.4 Trench timbering is dismantled according to site procedures and critical structural safety requirements 1.5 Performed housekeeping practices as per work place procedures
2. Construct and dismantle building formwork/shuttering	2.1 Personal protective equipment is selected, fitted and used according to safety rules and regulations 2.2 Formwork dimensions are determined as per the structural elements to be supported 2.3 <i>Formwork material</i> is identified as per structure complexity, job drawings or supervisor instructions 2.4 <i>Formwork type</i> is erected according to the structural element to be cast 2.5 Oiling of timber formwork surface is carried out for easy dismantling after concrete setting

ELEMENT	PERFORMANCE CRITERIA (<i>Bold and italicized terms are elaborated in the Range</i>)
	2.6 Formwork is fixed into position in accordance with the construction rules and regulations 2.7 Formwork is dismantled according to site procedures and critical structural safety requirements 2.8 Performed housekeeping practices after construction of formwork/shuttering as per workplace procedures
3. Erect and dismantle building scaffold	3.1 <i>Personal protective equipment</i> is selected, fitted and used according to safety rules and regulations and job specifications 3.2 <i>Scaffold system</i> is determined as per complexity of the building, engineering design, job drawings or supervisor instructions 3.3 Scaffolds are erected according to plan based on safe work practices and engineers' specifications 3.4 Scaffolds are inspected and commissioned as per the engineering specifications 3.5 Scaffolds are dismantled according to engineers' specifications, site procedures and critical structural safety requirements 3.6 Site cleaned and cleared of all tools, excess material and waste
4. Erect and dismantle building shores	4.1 Personal protective equipment is selected, fitted and used according to safety rules and regulations 4.2 <i>Shoring materials</i> are selected according to the construction rules and regulations 4.3 <i>Type of shore</i> is selected according to the nature of the work 4.4 Shoring is erected as per site conditions and building construction rules and regulations 4.5 Shoring is inspected and commissioned as per the engineer's specifications

ELEMENT	PERFORMANCE CRITERIA <i>(Bold and italicized terms are elaborated in the Range)</i>
	<p>4.6 Shoring is dismantled according to site procedures and critical structural safety requirements</p> <p>4.7 Housekeeping practices are performed according to workplace procedures</p>

RANGE

Variable	Range
1. Scaffold system may include but is not limited to:	<ul style="list-style-type: none"> • Dependent • Independent
2. Personal protective equipment may include but is not limited to:	<ul style="list-style-type: none"> • Helmets • Safety boots • Gloves • Overall • Reflectors
3. Formwork material may include but is not limited to:	<ul style="list-style-type: none"> • Timber • Metal plates • Plastic
4. Formwork type may include but is not limited to:	<ul style="list-style-type: none"> • Column formwork • Beam formwork • Floor formwork • Wall formwork • Permanent formwork
5. Trench timbering materials and tools may include but is not limited to:	<ul style="list-style-type: none"> • Timber • Hammer • Metal plates • Pliers • Nails • Binding wires
6. Soil type may include but is not limited to:	<ul style="list-style-type: none"> • firm soil • Loose soil • Waterlogged soil

Variable	Range
7. Type of shore may include but is not limited to:	<ul style="list-style-type: none"> • Raking/Inclined shore • Flying/horizontal shore • Dead/vertical shore
8. Shoring materials may include but is not limited to:	<ul style="list-style-type: none"> • timber • steel tubes • Bolts and nuts • Screws

REQUIRED KNOWLEDGE AND SKILLS

Knowledge

- Measurement
- Formwork
- Scaffolding
- Soil properties
- Wall construction
- Trench excavation
- Basic arithmetic
- Technical drawings

Skills

- Measurement skills
- Basic mathematic skills
- Reading skills
- Communication skills
- Construction tools handling skills
- Technical drawing skills

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1. Critical Aspects of Competency	<p>Assessment requires evidence that the candidate:</p> <p>1.1. Was able to erect and dismantle building scaffolds</p> <p>1.2. Constructed and dismantled building formwork/shuttering</p> <p>1.3. Constructed and dismantled trench timbering</p>
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	<p>1.4. Erected and dismantled building shores appropriately</p> <p>1.5. Observed occupational health and safety procedures to create a safe working environment</p>
2. Resource Implications	<p>The following resources should be provided:</p> <p>2.1 Access to relevant workplace or appropriately simulated environment where assessment can take place</p> <p>2.2 Measuring equipment</p> <p>2.3 Materials relevant to the proposed activity or tasks</p>
3. Methods of Assessment	<p>Competency may be assessed through:</p> <p>3.1. Practical assignment</p> <p>3.2. Written</p> <p>3.3. Oral interview</p> <p>3.4. Demonstrations</p>
4. Context of Assessment	<p>Competency may be assessed</p> <p>4.1 On-the-job</p> <p>4.2 Off-the –job</p> <p>4.3 During Industrial attachment</p>
5. Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.</p>