

APPLY ALTERNATIVE BUILDING TECHNOLOGY

UNIT CODE:CON/OS/ARC/CR/07/6/A

UNIT DESCRIPTION

This unit describes the competencies required to construct using EPS (expanded polystyrene systems), interlocking blocks, concrete prefabricated wall panels, metal panels, timber panels, plastics and glass panels and traditional construction materials.

ELEMENTS These describe the key outcomes which make up workplace function.	PERFORMANCE CRITERIA These are assessable statements which specify the required level of performance for each of the elements. <i>Bold and italicized terms are elaborated in the Range.</i>
1. Construct using EPS (expanded polystyrene systems)	1.1 EPS material is gathered 1.2 EPS is placed and short created to form wall parts 1.3 Wall parts are joined together to build the house based on the building design
2. Construct using interlocking blocks	2.1 Interlocking blocks are dry stacked on top of each other as per the design 2.2 Minimal mortar/slurry is applied between the interlocking blocks
3. Construct using concrete prefabricated wall panels	3.1 Precast concrete is <i>cast</i> 3.2 Precast is lifted to its final resting place 3.3 Precast is <i>fixed securely</i> to the next one as per the design
4. Construct using metal panels	4.1 Metal panels are insulated 4.2 Metal panels are joined together to form continuous walls as per the design
5. Construct using timber panels	5.1 Timber panels are joined to form walls as per the design 5.2 Timber panels' surfaces are polished and treated 5.3 Panels are <i>coated</i>
6. Construct using glass panels	6.1 Glass panels are bolted together to form walls as per the design 6.2 Glass panels are cleaned and polished
7. Construct using plastic panels	7.1 Plastic panels are securely joined together to form walls as per the design 7.2 Plastic panels are cleaned

8. Construct using traditional construction materials	8.1 <i>Traditional construction materials</i> are identified and costed 8.2 Traditional materials are applied in construction and finished 8.3 Traditional construction materials are maintained as per the type
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RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variable	Range
1. Cast may include but not limited to:	<ul style="list-style-type: none"> • At the building site • In a factory
2. fixed securely may include but not limited to:	<ul style="list-style-type: none"> • Bolted together. • Grouted or concreted together.
3. Coated may include but not limited to:	<ul style="list-style-type: none"> • Painted • Varnished
4. Traditional construction materials may include but not limited to:	<ul style="list-style-type: none"> • Grass • Makuti • Mud blocks • Bamboo • Mazeras • Mud and wattle • Hides and skins • Strings • Coral stones

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

Required Skills

The individual needs to demonstrate the following skills:

- Planning and organizing
- Building
- Joining
- Insulating walls
- Welding

- Varnishing
- Polishing
- Painting
- Fixing

Required knowledge

The individual needs to demonstrate knowledge of:

- PPEs
- Building materials
- Building techniques
- Safety precautions
- Modern building techniques

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 Constructed using EPS (expanded polystyrene systems)</p> <p>1.2 Constructed using interlocking blocks</p> <p>1.3 Constructed using concrete prefabricated walls</p> <p>1.4 Constructed using steel panels</p> <p>1.5 Constructed using timber panels</p> <p>1.6 Constructed using glass panels.</p> <p>1.7 Constructed using plastics</p> <p>1.8 Constructed using traditional construction materials</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 Materials relevant to the proposed activity or tasks</p>
3. Methods of Assessment	<p>Competency in this unit may be assessed through:</p> <p>3.1 Direct Observation</p> <p>3.2 Oral Questioning</p> <p>3.3 Portfolios</p> <p>3.4 Projects</p>
4. Context of Assessment	<p>Competency may be assessed</p> <p>4.1 On job</p> <p>4.2 Off job</p> <p>4.3 During industrial Attachment</p>
5. Guidance information for	<p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.</p>

assessment	
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