### PRODUCE MASONRY CONSTRUCTION UNITS

UNIT CODE: CON/OS/MA/CR/04/4/A

# **UNIT DESCRIPTION**

This unit specifies the competencies required to produce masonry construction units. It entails interpreting working drawings, estimating and costing materials and supplies, producing clay masonry units, concrete masonry units, hand dressed stones and stabilized soil masonry units

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This standard applies in the Construction industry.

### **ELEMENTS AND PERFORMANCE CRITERIA**

ELEMENT	PERFORMANCE CRITERIA		
These describe the key	These are assessable statements which specify the required level of		
outcomes which make up	performance for each of the elements.		
workplace function.	Bold and italicized terms are elaborated in the Range		
Interpret working drawings	<ul> <li>1.1 Working drawings are identified based on their features and title block.</li> <li>1.2 Scale of the drawing is read based on the drawing.</li> <li>1.3 Measurements are converted based on best practice.</li> <li>1.4 Symbols are identified based on working drawings standards.</li> </ul>		
2. Estimate and cost	2.1 <i>Materials and supplies</i> required for production of construction		
materials and supplies	units are identified based on the working drawings and specifications.		
	2.2 Schedule of materials and supplies is prepared based on the		
	drawings and specifications.		
	2.3 Materials and supplies are estimated and costed based on		
	working drawings and specifications.		
3.Produce clay masonry units	<ul> <li>3.1 Required <i>tools and equipment</i> for production of clay masonry units are identified based on the working drawings and specifications.</li> <li>3.2 Tools and equipment are used and maintained based on manufacturers' instructions.</li> </ul>		
	3.3 Required <i>PPEs</i> are identified and used based on job		
	requirements and manufacturers' instructions.		
	3.4 Materials and supplies for production of clay masonry units		

	are identified based on specifications.
	3.5 Clay mix is prepared based on best practice.
	3.6 Clay moulds are assembled and prepared as per standard procedure.
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	3.7 Moulding is carried out and products allowed to dry as per standard procedure.
	3.8 Dry products are arranged in a kiln in readiness for firing as per best practice.
	3.9 Firing is carried out as per best practice.
	3.10 <i>Fired clay products</i> are harvested, sorted and stored
	as per best practice.
4. Produce concrete	4.1 Required <i>tools and equipment</i> for production of concrete
masonry units	masonry units are identified based on the working drawings
	and specifications.
	4.2 Tools and equipment are used and maintained based on manufacturers' instructions.
	4.3 Required <b>PPEs</b> are identified and used based on job
	requirements and manufacturers' instructions.
	4.4 Materials and supplies for production of concrete masonry
	units are identified based on specifications.
	4.5 Concrete mix is prepared based on specifications.
	4.6 Concrete moulds are assembled and prepared as per standard procedure.
	4.7 Moulding is carried out and productscuredas per standard
	procedure.
	4.8 <i>Concrete masonry units</i> are sorted, arranged and stored as per best practice.
5. Produce hand dressed	5.1 Required <i>tools and equipment</i> for production of hand
stones	dressed masonry units are identified based on the working
	drawings and specifications.
	5.2 Tools and equipment are used and maintained based on manufacturers' instructions.
	5.3 Required <i>PPEs</i> are identified and used based on job
	requirements and manufacturers' instructions.
	5.4 Stones for production of hand dressed masonry units are
	identified based on specifications.
	5.5 Stones are dressed based on working drawings and
	specifications.
	5.6 Dressed stones are sorted based on size and job

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	requirements
Produce stabilized	6.1 Required <i>tools and equipment</i> for production of stabilized
soil masonry units	soil masonry units are identified based on the working
,	drawings and specifications.
	6.2 Tools and equipment are used and maintained based on
	manufacturers' instructions.
	6.3 Required <i>PPEs</i> are identified and used based on job
	requirements and manufacturers' instructions.
	6.4 Moulding machine/boxes are assembled and prepared
	based on standard procedure.
	6.5 Materials are mixed based on best practice and job
	specification.
	6.6 <b>Stabilized soil masonry units</b> are moulded, arranged and
	cured as per standard procedure.
	6.7 Stabilized soil masonry units are sorted based on quality.
	6.6 <b>Stabilized soil masonry units</b> are moulded, arrange cured as per standard procedure.

# **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.

Variables	Range
1. Supplies and	Clay masonry units
Materials may	• Water
include but not	Clay soil
limited to:	• Grass
	Used oil
	• Moulds
	Concrete masonry units
	• Ballast
	Quarry dust
	• Cement
	• Sand

Water Wire mesh Reinforcement bars Mould Used oil Stabilized soil masonry units Cement Water Soil Sisal Mould Used oil Quarry stones Bush Smooth medium 2. Masonry tools and Mason square equipment Trowels Spades Wheel barrow Dumper Float Hawk Concrete mixer Vibrator Compactor Hammer Mattock Machete **Buckets** Mixing platform Hose Pipe Drum Moulding boxes Molding machine Chisels

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3. Personal protective	Hard hat / helmet
equipment may	Dust mask
include but not	• Goggles
limited to:	Ear plugs / ear muffs
	Dust coat / coverall
	• Gloves
	Safety boots
	Gum boots
	Reflector jackets
4. Concrete masonry	Paving slabs
units may include but	Channels
not limited to:	• Culverts
	Roads kerbs
	Wall vents
	Vent blocks
	Hollow blocks
	Solid blocks
	Concrete posts
	Bollards
	Balustrades
	Interlocking blocks
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5. Fired clay units may	Roofing tiles
include but not	Wall tiles
limited to:	Window sills
	Bricks
	• Vents
	• Louvers
6. Stabilized soil	Interlocking blocks
masonry units may	• Blocks
include but not	
limited to:	

# 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:

- Interpersonal
- Communication
- Drawing
- Interpretation of working drawings
- Problem-solving
- Critical thinking
- Organizing
- Measuring
- Numeracy
- Mortar handling
- Clay mixing and blending
- Mould assembling and preparing
- Soil mixing and blending
- Time management
- Time work
- Concrete materials mixing
- Masonry units handling
- Moulding masonry units
- Tool and equipment handling

# Required Knowledge

The individual needs to demonstrate knowledge of:

- Interpretation of drawings and symbols
- Estimate and cost
- Conversion of units
- Measurement
- Safety
- Materials properties
- Mouldassembling and dismantling
- Moulding masonry units techniques
- Finishing techniques
- concrete
- Aggregates
- Soil types
- lime
- Cement types and uses
- Water
- curing of finished masonry units

- Use and maintenance of tools and equipment
- Type of masonry units and its application
- Extraction of materials

# **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		equires evidence that the candidate:
Competency	1.1 Id	entified features correctly
	1.2 Re	ead Scaled drawing accurately.
	1.3 Co	onverted Measurements correctly
	1.4 Id	entified working drawings Symbols appropriately
	1.5 Id	entified Materials and supplies required correctly
	1.6 Pr	epared Schedule of materials and supplies correctly
	1.7 Es	stimated and costed Materials and supplies
	ac	curately
	1.8 Id	entified required tools and equipment for production
	of	clay masonry units correctly
	1.9 Us	sed and maintained Tools and equipment
	ap	propriately
	1.10	Identified and used Required PPEs appropriately
	1.11	Identified Materials and supplies for production
		clay units correctly
	1.12	Prepared and mixed clay accurately.
	1.13	Prepared and assembled Clay mould
		propriately
	1.14	Moulded and dried clay products appropriately
	1.15	Arranged dried products are in a kiln correctly
	1.16	Fired clay products appropriately
	1.17	Harvested, sorted and stored Fired clay products
	1	propriately.
	1.18	Identified tools and equipment required for
	_	oduction of concrete masonry units correctly
	1.19	Identified Materials and supplies for production
		concrete masonry units correctly.
	1.20	Prepared and mixed concrete correctly.
	1.21	Prepared and assembled concrete mould
		propriately
	1.22	Moulded and cured concrete products correctly

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1.24   Identified tools and equipment required for production of hand dressed masonry units correctly   1.25   Identified Stones for production of hand dressed masonry units correctly   1.26   Dressed Stones appropriately   1.27   Identified tools and equipment required for production of stabilized soil masonry units correctly   1.28   Prepared and assembled Moulding machine/boxes are appropriately.   1.29   Mixed Materials for stabilized soil masonry units correctly   1.30   Moulded, arranged and cured stabilized soil masonry units appropriately.   1.31   Sorted Stabilized soil masonry units appropriately   1.32   Demonstrated understanding of production of masonry construction units   2.1 A functional workshop with basic masonry tools, equipment, materials and supplies.   2.2 References and manuals including construction working drawings   2.3 Personal protective equipment   Competency may be assessed through:   3.1 Observation   3.2 Oral   3.3 Written   3.4 Third party report   3.5 Portfolio   4. Context of Assessment   Assessment may be done:   4.1 On-the-job   4.2 Off-the-job or   4.3 During Work placement.   The unit may be assessed alone or together with other related units.		1.23 Sorted, arranged and stored Concrete masonry		
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4.1 On-the-job, 4.2 Off-the-job or 4.3 During Work placement.  5. Guidance information The unit may be assessed alone or together with other related		3.5 Portfolio		
4.2 Off-the-job or 4.3 During Work placement.  5. Guidance information The unit may be assessed alone or together with other related	4. Context of Assessment	Assessment may be done:		
4.3 During Work placement.  5. Guidance information The unit may be assessed alone or together with other related		4.1 On-the-job,		
5. Guidance information The unit may be assessed alone or together with other related				
		4.3 During Work placement.		
for assessment units.	5. Guidance information	The unit may be assessed alone or together with other related		
	for assessment	units.		

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