

FINISH MASONRY WORKS

UNIT CODE: CON/OS/MA/CR/03/4/A

UNIT DESCRIPTION

This unit specifies the competencies required to finish masonry works. It involves interpreting working drawings, estimating and cost materials and supplies, applying plaster and render walls, laying floor screed, applying tile and terrazzo finishing, jointing and pointing masonry walls and facing masonry walls

This standard applies in the Construction industry.

ELEMENT 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. Interpret working drawings	1.1 <i>Working drawings</i> are identified based on their features and title block. 1.2 Scale of the drawing is read based on the drawing. 1.3 Measurements are converted based on best practice. 1.4 Symbols are identified based on working drawings standards.
2. Estimate and cost materials and supplies	2.1 <i>Materials and supplies</i> required for finishing masonry works 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. Apply plaster and render walls	3.1 Required <i>tools and equipment</i> for finishing masonry works are identified and used based on the working drawings and specifications. 3.2 Required <i>PPEs</i> are identified and used based on job requirements. 3.3 <i>Wall surface is prepared</i> based on its condition and job requirements. 3.4 Mortar mix is prepared as per specification and working

	<p>drawing.</p> <p>3.5 2.5 Dot guides are laid, plumbed and aligned as per standard procedure.</p> <p>3.6 Plastering and rendering are applied as per specification and standard procedure.</p> <p>3.7 Plastered and rendered surfaces are cured as per standard procedure.</p>
4. Lay floor screed	<p>4.1 Floor surface is prepared based on its condition and job requirements.</p> <p>4.2 Mortar mix is prepared as per specification and working drawing.</p> <p>4.3 Dot guides are laid, levelled and aligned as per standard procedure.</p> <p>4.4 Screed is applied as per specification and standard procedure.</p> <p>4.5 Screed floor surfaces is cured as per specification and standard procedure.</p>
5. Apply tile and terrazzo finishing	<p>5.1 Surface is prepared based on its condition and job requirements.</p> <p>5.2 Terrazzo mortar mix is prepared as per specification and working drawing.</p> <p>5.3 Groutfor tiling is prepared as per specification and working drawing.</p> <p>5.4 Reference points are marked on the wall as per specification and standard procedure.</p> <p>5.5 Terrazo is applied as per specification and standard procedure.</p> <p>5.6 Finished surfaces are cured as per specification and standard procedure</p> <p>5.7 Terrazo surface issmoothenedas per specification and standard procedure.</p> <p>5.8 Tiles are applied as per specification and standard procedure.</p> <p>5.9 Tile joints are grouted as per specification and standard procedure.</p>

6. Joint and point masonry walls	<p>6.1 Wall surface is prepared based on its condition and job requirements.</p> <p>6.2 Mortar mix is prepared as per specification and working drawing.</p> <p>6.3 Jointing and pointing is done as per specification and standard procedure.</p> <p>6.4 Joints are checked for plumpness, vertical and horizontal alignment as per standard procedure.</p> <p>6.5 Pointing is checked for vertical and horizontal alignment as per standard procedure.</p> <p>6.6 Curing is per standard procedure.</p>
7.Face masonry walls	<p>7.1 <i>Facing materials and supplies</i> are identified based on working drawings and specifications.</p> <p>7.2 Wall surface is prepared based on its condition and job requirements.</p> <p>7.3 Mortar mix is prepared as per specification and working drawing.</p> <p>7.4 Facing is fixed as per specification and standard procedure.</p> <p>7.5 Faced wall is checked for plumpness and alignment as per standard procedure.</p> <p>7.6 Faced wall is <i>cured</i> as per standard procedure.</p>

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
-----------	-------

<p>1. Working drawings may include but not limited to:</p>	<ul style="list-style-type: none"> • Architectural drawings • MEP drawings • Site development drawings /landscape architectural drawings
<p>2. Supplies and Materials may include but not limited to:</p>	<ul style="list-style-type: none"> • Ballast • Sand • Cement • Additives • Water • Timber • Scaffolds • Lime • Chalk • Nails • Strings • Poles
<p>3. Personal Protective Equipment may include but not limited to:</p>	<ul style="list-style-type: none"> • Hard hat / helmet • Dust Mask • Goggles • Ear plugs / ear muffs • Dust coat / coverall • Gloves • Safety boots • Gum boots • Reflector jackets
<p>4. Masonry tools and equipment may include but not limited to:</p>	<ul style="list-style-type: none"> • Mason square • Spirit level • Plumb bob • Trowels • Terrazo grinder • Spatter dash • Spades • Wheel barrow • Dumper • Mason string • Straight edge • Float • Concrete mixer

	<ul style="list-style-type: none"> • Dumpy level • Key • Compactor • Assorted hammer • Mattock • Chisel • Machete • Sledge Hammer • Buckets • Mixing platform • Hose Pipe • Hawk • Scrapper
5. Surface preparation activities may include but not limited to:	<ul style="list-style-type: none"> • Cleaning • Watering • Hacking
6. Reference points may include but not limited to:	<ul style="list-style-type: none"> • Datum • Temporary bench mark (TBM)
7. Curing may include but not limited to:	<ul style="list-style-type: none"> • Water spraying • Jute sacks • Blankets • Sand • Pool curing • Curing agents
8. Facing materials and supplies may include but not limited to:	<ul style="list-style-type: none"> • Tiles • Mazeras • Bricks • Wood • Natural stones • Slates • Artificial moulds

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
- Concrete materials mixing
- Masonry units handling
- Tool and equipment handling
- Team work
- Time management

Required Knowledge

The individual needs to demonstrate knowledge of:

- Interpretation of drawings and symbols
- Estimate and cost
- Conversion of units
- Measurement
- Safety and access
- Scaffold erection and dismantling
- Square-ness checking techniques
- Finishing techniques
- Terrazo mix ratios
- Aggregates
- Additives
- Damp proofing materials
- Cement types and uses
- Types of timber
- Water
- Formwork
- Levelling
- Structural alignment
- Facing masonry units
- Finishing works curing
- Use and maintenance of tools and equipment

- Interpretation of symbols
- Type of rendering and its application

EVIDENCE GUIDE

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

<p>1. Critical aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 Identified working drawings correctly. 1.2 Read drawing scale correctly. 1.3 Converted measurements accurately. 1.4 Identified symbols correctly. 1.5 Identified masonry materials, supplies, tools and equipment correctly. 1.6 Prepared schedule of materials and supplies appropriately. 1.7 Estimated and cost materials and supplies accurately. 1.8 Identified appropriate personal protective equipment. 1.9 Used personal protective equipment correctly. 1.10 Used and maintained masonry tools and equipment appropriately. 1.11 Carried out preliminary preparation activities appropriately. 1.12 Located reference points on the wall accurately. 1.13 Prepared wall surface appropriately. 1.14 Laid, plumbed and aligned plaster dot guides accurately. 1.15 Applied plaster and render appropriately. 1.16 Cured plastered and rendered surfaces correctly. 1.17 Prepared floor surface appropriately. 1.18 Prepared mortar mix appropriately. <ul style="list-style-type: none"> 1.19 Laid, levelled and aligned screed dot guides correctly. 1.20 Applied floor screed appropriately. 1.21 Cured screed floor surfaces correctly. 1.22 Prepared wall or floor surface for tiling and terrazzo application appropriately. 1.23 Prepared terrazzo mortar mix accurately.
--	---

	<p>1.24 Prepared tiling grout correctly.</p> <p>1.25 Marked wall reference points accurately.</p> <p>1.26 Applied terrazzo finish appropriately.</p> <p>1.27 Cured finished surfaces appropriately.</p> <p>1.28 Smoothened terrazzo surface effectively.</p> <p>1.29 Applied tiles correctly.</p> <p>1.30 Grouted tile joints correctly.</p> <p>1.31 Jointed and pointed masonry walls correctly.</p> <p>1.32 Plumbed and aligned joints and points correctly.</p> <p>1.33 Identified facing materials and supplies correctly.</p> <p>1.34 Fixed masonry wall facings correctly.</p> <p>1.35 Plumbed and aligned masonry wall facings correctly.</p> <p>1.36 Cured faced masonry wall appropriately.</p> <p>1.37 Demonstrated understanding of masonry works finishes.</p>
<p>2. Resource Implications for competence certification</p>	<p>The following resources must be provided:</p> <p>2.1A functional workshop with appropriately masonry tools, equipment, materials and supplies.</p> <p>2.2References and manuals including construction working drawings</p> <p>2.3Personal protective equipment</p>
<p>3. Methods of Assessment</p>	<p>Competency may be assessed through:</p> <p>3.1Observation</p> <p>3.2Oral</p> <p>3.3Written</p> <p>3.4Third party report</p> <p>3.5Portfolio</p>

4. Context of Assessment	Assessment may be done: 4.1 On-the-job, 4.2 Off-the-job or 4.3 During Work placement.
5. Guidance Information for Assessment	The unit may be assessed alone or together with other related units.

easytvvet.com