PRODUCE BUILDING DRAWINGS

UNIT CODE: ENG/OS/QS/CR/02/6/A

UNIT DESCRIPTION

This unit describes the competence in producing building drawings. It involves producing scaled building drawings and producing detailed building drawings.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT		PERFORMANCE CRITERIA
		(Bold and italicized terms are elaborated in the Range)
1	Produce scaled building drawings	 1.1 <i>Building details</i> are obtained from the client 1.2 Site dimensions are determined based on the site layout 1.3 Floor layout sketches are produced based on the client's specifications
		 1.4 Scaled building floor plan is produced based on floor layout sketches 1.5 Roof plan is produced based on floor plan. 1.6 Building elevations are prepared based on the floor plan 1.7 Building sections through critical points are produced
2	Produce detailed building drawings	 2.1 <i>Details of major materials</i> are prepared based on the nature of the building 2.2 <i>Details of exploded views</i> are prepared based on nature of the building 2.3 <i>Finishes</i> are determined based on the room function 2.4 <i>Detailed specifications</i> are prepared based on client's requirements and SOPs

RANGE

Variable	Range
	May include but is not limited to:
1. Building details	1.1 Type of building
	1.2 Functional units
	1.3 Building facilities
	1.4 Coverage/plinth area
	1.5 Room sizes
	1.6 Shape of the building
2. Details of major	2.1 foundation materials
materials	2.2 Walling materials
	2.3 Roofing materials
	2.4 Beams and column materials

3.	Details of exploded	3.1 Substructure works
	views	3.2 Roofing works
		Roof construction
		Roof cover
		Eaves and verges
		• Ridges
		Rain water goods
		3.3 Superstructure works
		3.4 Finishes
		3.5 Doors and windows
		3.6 Staircases
		3.7 Suspended slabs
		3.8 Fixtures and fittings.
4.	Detailed	4.1 Substructure works
	specifications	4.2 Superstructure works
		4.3 Staircases
		4.4 Suspended slabs
		4.5 Roofing works
		4.6 Doors and windows
		4.7 Finishes
		4.8 Doors and windows
		4.9 External works

REQUIRED KNOWLEDGE

- > Technical drawing
- Building drawings
- > Scaling
- > Measurements
- > Construction trends
- > Construction materials
- > Building design by-laws
- > Topography
- > Site planning
- > Plan interpretation
- > Specifications
- > Locally available materials

SKILLS

- > Technical drawing
- > Site planning
- > Plan interpretation
- Building drawing

> Research

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	Assessment requires evidence that the candidate:
	Competency	 Produced scaled building plans
		Detailed specifications
2.	Resource	The following resources should be provided:
	Implications	Drawing instruments
		Computers
		Drawing instruments and equipment
		Stationery
		• Studio
		CAD software
		• Printers
		scientific calculators
3.	Methods of	Competency may be assessed through:
	Assessment	3.1 Written text
		3.2 Interview
		3.3 Observation
4.	Context of	Competency may be assessed on the job, off the job or a
	Assessment	combination of these. Off the job assessment must be undertaken
_	Cuidonos	in a closely simulated workplace environment.
5.	Guidance	Holistic assessment with other units relevant to the industry
	information for	sector, workplace and job role is recommended.
	assessment	