DETAIL ARCHITECTURAL PROJECTS

UNIT CODE:CON/OS/ARC/CR/01/5/A

UNIT DESCRIPTION

This unit describes the competencies required to conduct literature review, carry out case study, produce schematic drawings, prepare presentation drawings, prepare working drawings, prepare details drawings, revise working drawings and apply CADD in architectural work

ELEMENTS	PERFORMANCE CRITERIA
These describe the	These are assessable statements which specify the
key outcomes which	required level of performance for each of the elements.
make up workplace function.	Bold and italicized terms are elaborated in the Range.
1. Conduct literature review	1.1 Research on design parameters is done as per spatial requirements
	1.2 Research on material use is conducted as per spatial requirement
	1.3 Research on historical backgrounds of similar projects is conducted
2. Carry out case	4.1 An identical existing project is identified
study	4.2 The identified project is visited
	4.3 Observations are recorded as per workplace procedures
	4.4 Analysis of the observations is done
	4.5 Conclusions and recommendations are made as per the
	existing project.
	4.6 Sound findings are adopted in the proposed project
3. Produce schematic	3.1 Bubble diagram is prepared as per the spatial
drawings	requirement
	3.2 A scaled sketch is formulated based on the bubble
	diagram and client's proposed budget.
	3.3 A sketch model is prepared as per the sketch
	3.4 Drawing is presented for approval or adjustments
4. Prepare presentation	4.1 Sketches are adopted or adjusted based on the client's approval
drawings	4.2 <i>Fittings</i> and <i>Furniture</i> layout and human elements
	incorporated in the drawing as per spatial requirement
	4.3 Major dimensions are indicated as per the spatial design
	4.4 Artistic impressions are incorporated in the drawing
	4.5 Drawing is presented for approval or adjustments

5.	Prepare working	5.1 Presentation drawings are adopted or adjusted based on
drawings		approval
		5.2 Artistic impressions removed from the working
		drawings
		5.3 Drawing is fully dimensioned and labelled
		5.4 Door and window schedules are prepared as per working drawing
		5.5 Finishing materials and codes are indicated on the
		working drawing
		5.6 <i>Detailed site plan</i> is prepared observing local government regulations
		5.7 Drawing is plotted on a tracing paper
		5.8 Drawing is produced on a ducing paper 5.8 Drawing is produced on blueprint
		5.9 Working drawing is submitted to the local government
		authorities for approval
6.	Prepare drawing	6.1 Required details are identified based on the working
0.	details	drawings
		6.2 Scaled details are produced
		6.3 Details drawings are presented to the architect.
7.	Revise working	7.1 <i>Design changes</i> are received from architect in the design
	drawings	team
	-	7.2 Additions and alterations are incorporated in the
		working drawings
		7.3 Revised working drawings presented to the architect for
		approval
8.	Draw architectural	8.1 Landscape drawings are presented to the architect
	landscapes	8.2 Detailed landscape drawings are presented to the
		architect.
9.	Apply CADD in	9.1 Sketch is drafted using design software
	architectural work	9.2 Sketch is detailed to produce presentation drawing
		9.3 Presentation drawing is detailed to produce working
		drawing
		9.4 Detail drawing is produced using design software
		9.5 Detail drawing is plotted on a tracing paper
		9.6 Detail drawing is produced on blueprint
		9.7 Building Information Management Systems are applied
		as per workplace procedures

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.	Fittings may include but is not limited to:	 Wash hand basins Bathtubs
		Water closetSinks
2.	Furniture may include but	Chairs
	is not limited to:	• Tables
		• Wardrobes
3.	Design changes may	Alterations
	include but is not limited	Additions
	to:	
4.	Detailed site plan may	Building location
	include but is not limited	• Sewer and storm water drainage
	to:	Plot coverage

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:

- Designing
- Scheduling
- Sketching
- Drafting
- Modelling
- Creativity
- Estimation skills
- Observation skills
- Planning and organizing
- Analytical skills

Required knowledge

The individual needs to demonstrate knowledge of:

• Design software

- Design scales
- Anthropometrics and ergonomics
- Environmental regulations
- Architect's data
- Building standards and regulations
- Building codes
- Statutory regulations
- Safety precautions and regulations
- •
- Research
- Photography
- Thermal insulation
- Mathematics
- Acoustics

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	1.1 Produced schematic drawings	
	1.2 Prepared presentation drawings	
	1.3 Prepared working drawings	
	1.4 Prepared details drawings	
	1.5 Applied CADD in architectural drawings	
2. Resource	The following resources should be provided:	
Implications	2.1 Access to relevant workplace or appropriately simulated environment where assessment can take place	
	2.2 Materials relevant to the proposed activity or tasks	
3.Methods of	Competency in this unit may be assessed through:	
Assessment	3.1 Direct Observation	
	3.2 Oral Questioning	
	3.3 Portfolios	
	3.4 Projects	
	3.5 Written tests	
4. Context of	Competency may be assessed	
Assessment	4.1 On job	
	4.2 Off job	
	4.3 During Industrial Attachment	
5. Guidance	Holistic assessment with other units relevant to the industry	
information for	sector, workplace and job role is recommended.	
assessment		