

ARCHITECTURAL PROJECTS

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

Relationship to Occupational Standards

This unit addresses the unit of competency: Detail architectural projects

Duration of Unit: 120 hours

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

Summary of Learning Outcomes

1. Conduct literature review
2. Carry out case study
3. Produce schematic drawings
4. Prepare presentation drawings
5. Prepare working drawings
6. Prepare details drawings
7. Revise working drawings
8. Apply CADD in architectural work

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Conduct literature review	<ul style="list-style-type: none">• Research• Evolution of construction materials• Historical backgrounds of projects	<ul style="list-style-type: none">• Reports• Sketches
2. Carry out case study	<ul style="list-style-type: none">• Meaning of case study• Importance of a case study• Local case studies• International case studies• SWOT Analysis of case studies	<ul style="list-style-type: none">• Observation• Oral questioning• Drawings and sketches

3. Produce schematic drawings	<ul style="list-style-type: none"> • Meaning of schematic drawings • Preparation of Bubble diagrams • Formulation of proportional sketches • Preparation of a sketch models • Viability of design 	<ul style="list-style-type: none"> • Observation • Oral questioning • Sketches/ drawings/ models • Practicals
4. Prepare presentation drawings	<ul style="list-style-type: none"> • Meaning of presentation drawings • Content of presentation drawings <ul style="list-style-type: none"> • Plans • Elevations • 3D models • Format of presentation drawings <ul style="list-style-type: none"> • Models • Drawings • Soft copy • Dimensioning • Artistic impressions 	<ul style="list-style-type: none"> • Observation • Oral questioning • Drawings and sketches • Practicals
5. Prepare working drawings	<ul style="list-style-type: none"> • Meaning and purpose of working drawings • Content of working drawings • Dimensions and labels • Preparation of door and window schedules • Indication of finishing materials and codes on the working drawing • Preparation of a detailed site plan • Local government regulations • Plotting drawing on a tracing paper • Production of drawing on blueprint • Preparation of bill of quantities • Preparation of a works program 	<ul style="list-style-type: none"> • Observation • Oral questioning • Drawings • Practicals
6. Prepare details drawings	<ul style="list-style-type: none"> • Integration of engineering drawings into the details drawings • Production of scaled details 	<ul style="list-style-type: none"> • Observation • Oral questioning • Drawings

	<ul style="list-style-type: none"> • Meaning and importance of details drawings • Format and content of details drawing • Detail drawings <ul style="list-style-type: none"> • Roofs • Walls • Floors 	<ul style="list-style-type: none"> • Practicals
7. Revise working drawings	<ul style="list-style-type: none"> • Meaning and importance of revising working drawings • Incorporation of additions and alterations in the working drawings • Presentation of revised working drawings • Local authorities • Occupational certificate 	<ul style="list-style-type: none"> • Observation • Oral questioning • Drawings • Practical Tests
8. Apply CADD in architectural work	<ul style="list-style-type: none"> • Production of architectural drawings using design software <ul style="list-style-type: none"> • Sketch • Presentation drawing • Working drawing • Detail drawing • Detail drawing plotting on a tracing paper • Detail drawing production on blueprint • Building information management (BIM) systems 	<ul style="list-style-type: none"> • Observation • Oral questioning • Projects • Practical Tests

Suggested Methods of Instruction

- Demonstration by trainer
- Practical work by trainee
- Demonstration videos
- Projects
- Group discussions
- Group projects

Recommended Resources

- Drawing paper
- Stationery
- Data
- Measuring tools
- Design software
- Computers
- Tracing paper
- Internet
- Transportation
- Cameras