# **BUILDING DRAWINGS**

# UNIT CODE: CON/CU/CET/CR/06/6/A

#### **Relationship to Occupational Standards**

This unit addresses the unit of competency: Produce building drawings

Duration of Unit: 200 hours

## **Unit Description**

This unit describes the competencies required to produce building drawings. It involves interpreting architectural drawings, preparing structural and civil drawings, preparing plumbing layouts, interpreting electrical and mechanical drawings.

## **Summary of Learning Outcomes**

- 1. Interpret architectural drawings
- 2. Prepare structural and civil drawings
- 3. Interpret electrical drawings
- 4. Design plumbing layout
- 5. Interpret mechanical drawings

## Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome		Content	Suggested Assessment Methods
1.	Interpret architectural drawings	<ul> <li>Drawing tools and equipment</li> <li>Site investigation/surveying</li> <li>Construction dimensions</li> <li>Project plan and design</li> <li>Architectural drawings</li> <li>Building codes</li> </ul>	<ul> <li>Practical assignment/project</li> <li>Oral/written</li> </ul>
2.	Prepare structural and civil drawings	<ul> <li>Structural elements</li> <li>Codes of practice</li> <li>Bar bending schedule</li> <li>Structural drawings</li> <li>Civil elements</li> <li>Culverts</li> <li>Retaining walls</li> <li>Pavements</li> <li>Storm water drain systems</li> </ul>	<ul> <li>Practical assignment/project</li> <li>Oral</li> <li>Written</li> </ul>

3. Interpret electrical drawings	<ul> <li>Septic tanks</li> <li>Codes of practice</li> <li>Civil drawings</li> <li>Electricity and electronics</li> <li>Electrical codes of practice</li> <li>Architectural layout</li> <li>Electrical connection layout</li> <li>Electrical drawings</li> </ul>	<ul> <li>Practical assignment/project</li> <li>Oral</li> <li>Written</li> </ul>
4. Design plumbin layout	<ul> <li>Pipe sizes</li> <li>Pipe types</li> <li>Pipe fittings</li> <li>Pipe installation</li> <li>Consumption requirements</li> <li>Plumbing layout</li> </ul>	<ul> <li>Written</li> <li>Oral</li> <li>Projects/practical assignment</li> </ul>
5. Interpret mechanical drawings	<ul> <li>Dimensions (mechanical)</li> <li>Mechanical systems</li> <li>Mechanical components</li> <li>Sketching mechanical components</li> <li>Drafting mechanical components</li> <li>Mechanical component dimensions</li> </ul>	<ul> <li>Oral</li> <li>Projects/practical assignments</li> <li>Written</li> </ul>

# **Suggested Methods of Instruction**

- Demonstration by trainer
- Practical work by trainee
- Demonstration videos
- Project
- Group discussions

#### **Recommended Resources**

- measuring and drawing tools
- computers/internet
- printers/plotting device
- Codes of practice
- mechanical conventions,

- workstation
- CAD & GIS Software
- Dust coat
- First aid kits

easytvet.com