

TECHNICAL DRAWING

UNIT CODE: CON/CU/PL/CC/03/4/A

Relationship to Occupational Standards

This unit addresses the unit of competency: Apply Technical Drawing

Duration of Unit: 60hours

Unit Description

This unit covers the competencies required to prepare and apply technical drawing. It involves competencies in selecting, using and maintaining drawing equipment and materials. It also involves developing plane geometry drawings, solid geometry drawings, pictorial and orthographic drawings

Summary of Learning Outcomes

1. Select, use and maintain drawing equipment and materials
2. Develop plane geometry drawings
3. Develop solid geometry drawings
4. Develop pictorial and orthographic drawings

Learning Outcomes, Content and Suggested Assessment Methods:

Learning Outcome	Content	Suggested Assessment Methods
1. Select, use and maintain drawing equipment and materials	<ul style="list-style-type: none">• Terms and concepts• Drawing equipment• Drawing materials• Use, care and maintenance of drawing equipment's	<ul style="list-style-type: none">• Observation• Oral questioning• Written tests

<p>2. Develop plane geometry drawings</p>	<ul style="list-style-type: none"> • Terms and concepts • Types of lines in drawings • Freehand sketching • Construction, measurement and bisection of angles • Construction of geometric forms e.g. squares, polygons, circles • Standards drawing conventions 	<ul style="list-style-type: none"> • Oral questioning • Practical tests • Observation
<p>3. Develop solid geometry drawings</p>	<ul style="list-style-type: none"> • Terms and concepts • Interpretation of sketches and drawings of patterns e.g. cylinders, prisms and pyramids • Develop geometrical solid figures e.g. prisms, cones Surface development 	<ul style="list-style-type: none"> • Observation • Practical tests • Oral questioning
<p>4. Develop orthographic drawings</p>	<ul style="list-style-type: none"> • Terms and concepts • Free hand sketching • Pictorial and orthographic drawings • Meaning of symbols and abbreviations • First angle and third angle projections. • Drawing and interpretation of orthographic elevations • Dimensioning of orthographic elevations • Conversion of orthographic to pictorial 	<ul style="list-style-type: none"> • Observation • Practical tests • Oral questioning

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Suggested Methods of Instruction

- Demonstration by trainer
- Practice by the trainee
- Discussions

Recommended Resources

- Drawing room
- Drawing instruments e.g. T-squares, set squares, drawing sets
- Drawing tables
- Pencils, papers, erasers
- Masking tapes
- Text books
- Samples of solids

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