

GOOMETRY DRAWINGS

UNIT CODE: ENG/CU/AUT/CC/1/4/A

Relationship to Occupational Standards

This unit addresses the unit of competency: **Prepare and Interpret Applied Goemetry Drawings**

Duration of Unit: 50 hours

Unit Description

This unit covers the competencies required to prepare and interpret applied geometry drawings. It involves selecting, using and maintaining drawing equipment and materials. It also involves printing, constructing of lines and interpreting symbols, producing plane and solid geometry drawings and producing pictorial and orthographic drawings of components.

Summary of Learning Outcomes

1. Use and maintain drawing equipment and materials.
2. print, construct lines and interpret symbols,
3. Produce plane geometry drwaings
4. Produce solid geometry drawings
5. Produce pictorial and orthographic drawings of components.

Learning Outcomes, Content and Suggested Assessment Methods:

Learning Outcome	Content	Suggested Assessment Methods
1. Use and maintain drawing equipment and materials	<ul style="list-style-type: none">• Drawing equipment• Using and maintaining drawing equipment• Storing drawing equipment• Waste disposal• Safety and environmental regulations	<ul style="list-style-type: none">• Observation• Oral questioning• Written tests
2. Print, construct lines and interpret symbols	<ul style="list-style-type: none">• Printing of letters and numbers	<ul style="list-style-type: none">• Oral questioning• Practical tests

	<ul style="list-style-type: none"> • Types of lines, symbols and abbreviations • Bisecting lines and angles • Dimensioning • 	<ul style="list-style-type: none"> • Observation
3. Produce plane geometry drawings	<ul style="list-style-type: none"> • Triangles • Quadrilaterals • Polygons • Types of angles 	<ul style="list-style-type: none"> • Observation • Practical tests • Oral questioning
4. Produce Solid geometry drawings	<ul style="list-style-type: none"> • Regular solids • Development of regular solids • True shapes of sections 	<ul style="list-style-type: none"> • Observation • Practical tests • Oral questioning
5. Produce pictorial and orthographic drawings of components	<ul style="list-style-type: none"> • Orthographic symbols and abbreviations • Isometric • Oblique • Orthographic 	<ul style="list-style-type: none"> • Observation • Oral questioning • Practical tests

Suggested Methods of Instruction:

- Projects
- 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