

Trade of Metal Fabrication

Module 6:	Fabrication Drawing
Unit 5:	Orthographic Projection 1
	Phase 2

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Document Release History

Date	Version	Comments
20/02/07	First draft	
12/12/13	SOLAS transfer	

Module 6 – Fabrication Drawing

Unit 5 – Orthographic Projection 1

Duration – 4 Hours

Learning Outcome:

By the end of this unit each apprentice will be able to:

- Read, interpret, construct and dimension using the 1st angle method of Orthographic projection
- Identify, select and construct the standard rolled steel section which is used for the fabrication industry

Key Learning Points:

Rk	Orthographic projection – 1 st angle. (For more information see Module 5 Unit 8).
Rk	Characteristics of 1 st angle projection. (For more information see Module 4 Unit 8).
Rk D	Example of 1 st angle projection (Angle 40 x 40 x 6 x 120mm).
Rk	Symbol for 1 st angle projection. (For more information see Module 5 Unit 8).
Rk D	Rolled steel sections/serial size taken as actual size.
Rk	Abbreviations used for these sections. (For more information see Module 4 Unit 1).
D	Use of graph paper for freehand drawing. (For more information see Module 6 Unit 3).
Rk	Drawings used as a means of communication. (For more information see Module 3 Unit 1).
Rk	Brief history of Orthographic projection. (For more information see Module 5 Unit 8).
P	Communication. Presentation of drawing exercises.

Training Resources:

- Classroom with full set of drawing equipment, instruments and paper

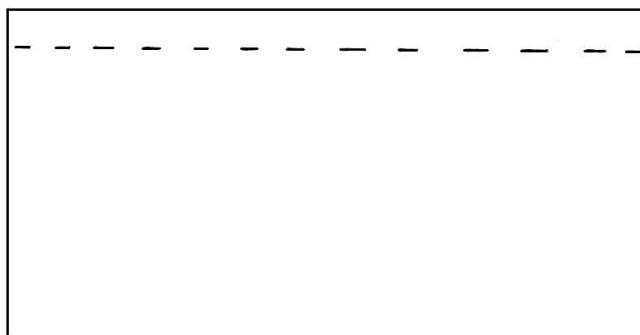
Key Learning Points Code:

M = Maths D = Drawing RK = Related Knowledge Sc = Science
P = Personal Skills Sk = Skill H = Hazards

First Angle Projection



First angle projection



40 x 40 x 6 ANGLE x 120 mm

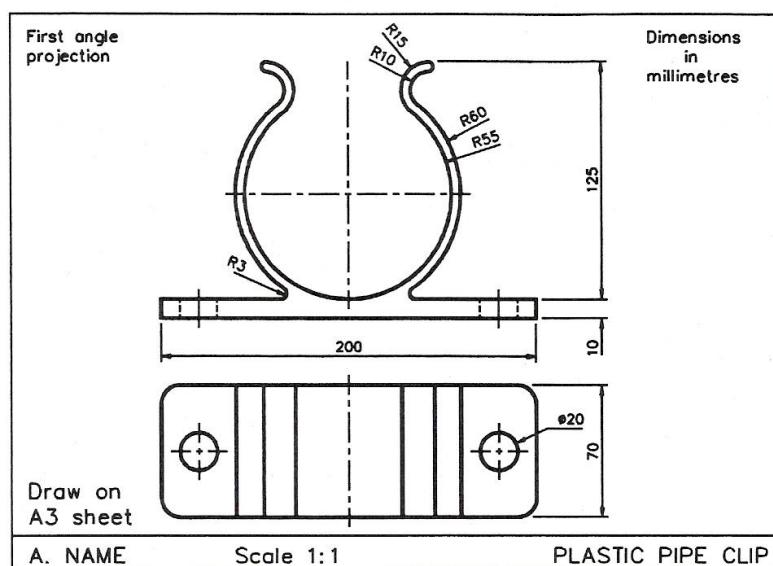
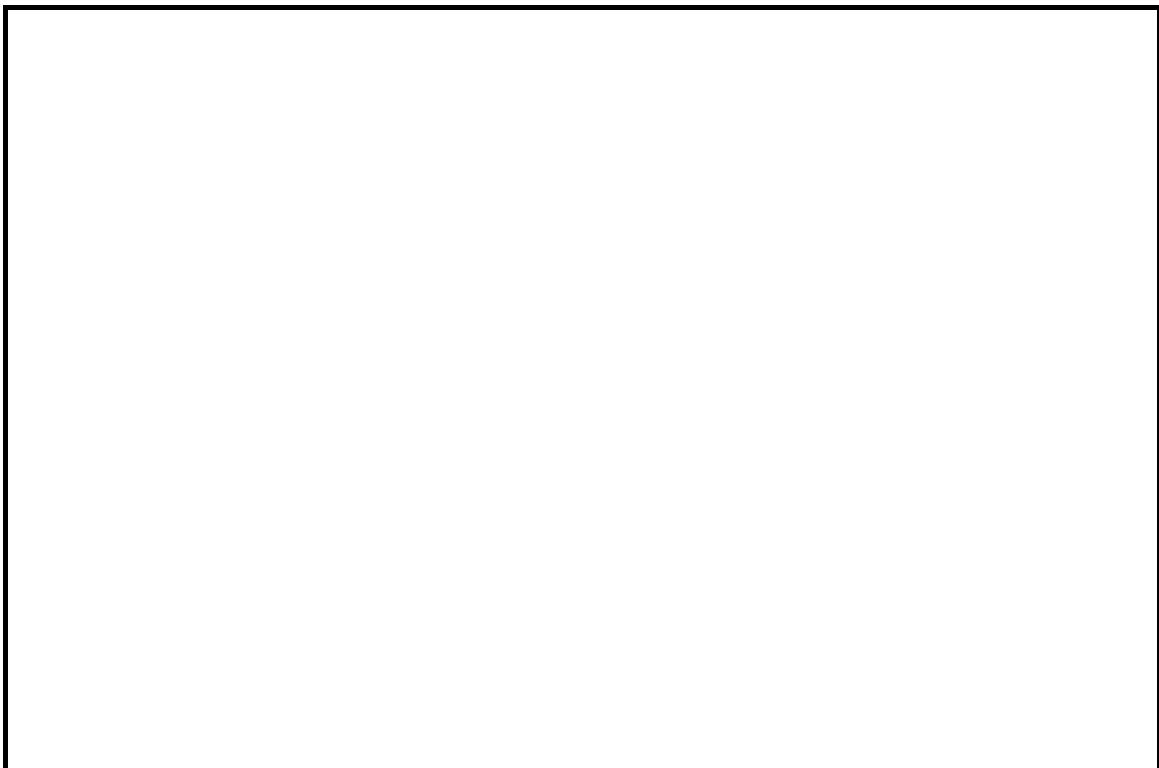


Figure 1

Self Assessment

Questions on Background Notes – Module 6.Unit 5

1. In relation to reading drawings what are the two views you would see in First Angle Projection.

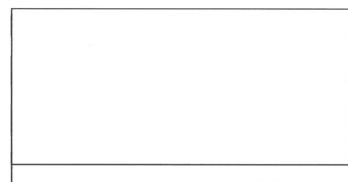


Answers to Question 1. Module 6. Unit 5

1.

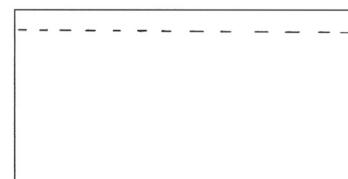
First Angle Projection:

Elevation



First angle projection

Plan.



40 x 40 x 6 ANGLE x 120 mm

Figure 13.

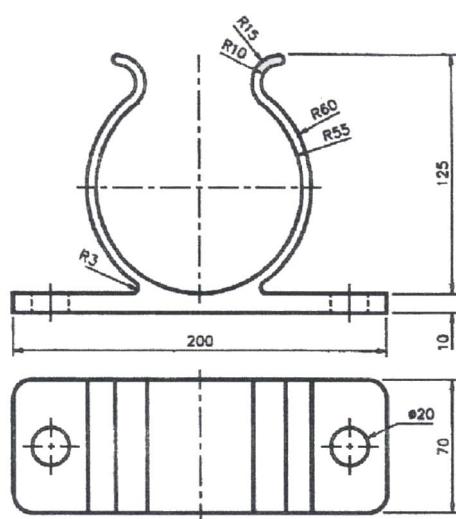


Figure 14.

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