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Module 4 – General Sheet Metalwork

Unit 9 – Right Cone Cut by a Curve

Duration – 10.5 Hours

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

- Construct and fabricate a right cone intersecting a cylindrical main duct using parallel and radial line method of development
- Assemble a cylindrical spigot using a paned-down joint
- Plan and organise the production sequence
- Form individual parts

Key Learning Points:

- **D** Drawing and development of right cone cut by a curve.
- **Rk** Accuracy required for curved developments.
- **Sk** Fit up of curved surface to cylindrical pipe.
- **P** Work unassisted.

Training Resources:

- Toolkit
- Work sample
- Spot welding machine (pedestal or hand type)
- Conical bench stakes
- Job card
- Job notepad
- Safety equipment and protective clothing
- 0.6mm galvanised mild steel

Key Learning Points Code:

- **M** = Maths
- **D** = Drawing
- **RK** = Related Knowledge
- **Sc** = Science
- **P** = Personal Skills
- **Sk** = Skill
- **H** = Hazards
Figure 1 - Cone Cut by Curve
Cone Cut by a Curve

If pipe B is marked out by parallel line development, the workshop method to obtain the hole of penetration may be used to check out your drawing accuracy.

1. Using the measurements given draw these two views.
2. Use the radial line as shown earlier.
3. Finished pattern should look like pattern A.
Self Assessment

Questions on Background Notes – Module 4.Unit 9

No suggested Questions and Answers.
Answers to Questions. Module 4.Unit 9

No suggested Questions & Answers.
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