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32035 - FOUNDRY AND WELDING PRACTICAL

DETAILED SYLLABUS

OBJECTIVES

- Identify the tools used in foundry.
- Identify the tools and equipment used in welding
- Prepare sand moulds for different patterns.
- Perform welding operation to make different types of joints.
- Identify the different welding defects.
- Appreciate the safety practices used in welding.
- Prepare a record of work for all the exercises.

Foundry Section

- 1. Introduction of tools and equipment
- 2. Types of patterns
- 3. Types of sand
- 4. Preparation of sand moulds
- 5. Core sands, preparation of cores

Exercises

Prepare the green sand mould using the following patterns.

Solid pattern

1. Stepped pulley

Split pattern

- 2. Bent Pipe with core print
- 3. T-pipes with core print
- 4. Tumbles

Loose Piece Pattern

5. Dovetail

Core preparation

6. Core preparation for Bent pipe / T-pipe

Welding Section

1. Introduction of Safety in welding shop

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- 2. Introduction to hand tools and equipment
- 3. Arc and gas welding equipment
- 4. Types of joints

Exercises

Make the following welding joint / cutting.

Arc welding (Raw Material: 25 mm x 6mm MS flat)

- 1. Lap joint
- 2. Butt joint
- 3. T- joint

Gas Welding (Raw Material: 25mm x 3mm Ms flat)

4. Lap joint

Gas cutting: (GI/MS Sheet - 3mm thickness)

5. Profile cutting – circular profile

Spot welding: (GI/MS Sheet)

6. Lap joint