

EDM Machining Work Instruction Guide

1. Purpose

To provide standard work instructions for safely and effectively operating the EDM (Electrical Discharge Machining) machine.

2. Scope

This instruction applies to all operators and technicians performing EDM machining processes.

3. Responsibilities

- Ensure machinery is operated by qualified personnel only.
- Follow all established safety protocols and procedures.

4. Required Equipment & Materials

- EDM Machine
- Personal Protective Equipment (PPE)
- Electrode material
- Workpiece
- Measuring instruments
- Flushing fluid

5. Safety Precautions

1. Wear appropriate PPE including gloves and eye protection.
2. Ensure area is free from combustible materials.
3. Do not touch electrode or workpiece during operation.
4. Follow lockout/tagout procedures before performing maintenance.

6. Work Instructions

1. Verify all equipment and materials are prepared and in good condition.
2. Secure the workpiece onto the machine table.
3. Install the correct electrode based on work requirements.
4. Set EDM parameters according to the job sheet.
5. Fill or check the flushing fluid level.
6. Align electrode and workpiece accurately.
7. Initiate the machining cycle.
8. Monitor process and make adjustments as needed.
9. Upon completion, remove workpiece and inspect quality.
10. Clean machine and work area.

7. Quality Checklist

Check Item	Criteria	Result
Workpiece alignment	Within 0.02 mm	
Surface finish	No visible burns	
Dimensions	Per drawing/spec	
Cleanliness	Machine & area clean	

8. References

- EDM Machine Operation Manual
- Company Safety Guidelines