

Die-sinking EDM Training Syllabus

Duration: 3 Days

Start Time: 8:30am

Finish Time: 4:30pm

*Lunch provided for all training days

Prerequisites

Basic technical notions

Training Overview

- Die-sinking EDM Basic training
- All Controls

Target Audience

- Current or new EDM Operators

Course Overview

- Understanding the EDM process
- Mastering the HMI
 - Navigating through the different screens
 - Machine language
 - Learning how to write a machine program
- Optimum machine setting method
 - Preparing the machine and its environment
 - Temperature control and dielectric quality
 - Verification of control points
 - References and position of workplaces
 - Learning and using machining parameters
- Machine maintenance

Course Content

- **Day 1**
 - Objectives of training course
 - Installation of HMI onto participants laptop (optional if needed)
 - Overview FORM
 - Machine components
 - Machine needs
 - Introduction to HMI
 - Taken the references machine
 - Measuring Cycles
 - Definition of a machining pass
 - Definition of a machining pass
 - Undersize calculation
 - Undersize calculation

- Preparation of the first job
 - Starting an easy job (application example #1)

Day 2



- Machining cycles
 - Remove material process
 - Presentation of the machining cycles
 - Cycle down/orb
 - Cycle ISOGAP
 - Cycle down/expansion
 - Cycle cylinder
 - Cycle cone
 - Cycle diag
 - Cycle helic
 - Cycle traj
- Chose the type of application
 - Select the right technology
- Application examples #2 & #3
 - Make the program
 - Execute a reference ball
 - Execute an alignment of the electrode
 - Start the program
- Application examples #4 & #5
 - Machining additional examples (see steps above)

• Day 3

- Maintenance of the machine
 - Change filter
 - Change dielectric
 - Quality of dielectric
 - Maintenance zone
 - Fixing of the electrodes
- Maintenance of the machine 2
 - Tool changer
 - Greasing points
 - Part consumables (filter, dielectric, etc.)
- Option and variant
 - Presentation of the different option
 - Tool changer
 - Robot
 - Fire system
 - Mechanic probe
 - Work shop connectivity
 - Interface E/S