

CNC Machine Operations & Programming.

CNC- Milling Machine

Course Code : 041CNC

Content

- Basic concept of CNC.
- Introduction to CNC Milling Machine
- General/Operational Features of the Machine
- Modes of Operation (Manual, MDI, Editing, Automatic)
- Safety and Maintenance
- Programming and Simulation (Simple Steps).
- Work piece setting.
- Address speed, Feed, Tool compensation.
- Program Editing/Program Execution
- Hands on sessions on CNC Milling.
- Transfer of programs from CAM.

Duration :

Machines Used : CNC Milling **DECKAL MAHO - 4 Axes machine** (HAIDENHAIN **TNC 426** Controller)

Target Group

Technical Managers, Engineers, Technical Assistants, Undergraduates, Technical & Vocational

trainees, Machine

Operators, Interested Individuals with technical experience.

Number of Participants : Maximum Two Participants per batch.

Expected outcome at the end of program

Will get a basic knowledge about CNC Milling machine, Operations and programming techniques. Generate CNC programs via CAD/CAM.

CNC- Lathe Machine

Course Code : 042CNC

Content

- Basic concept of CNC. Introduction to CNC Lathe Machine
- General/Operational Features of the Machine
- Modes of Operation (Manual, MDI, Editing, Automatic)
- Safety and Maintenance.
- Manual turning.
- Programming and Simulation (Simple Steps).
- Work piece setting. Work offset, Tool offset
- Address speed, Feed, Tool compensation.
- Program Editing/Program Execution.
- Program simulation.
- Hands on sessions on CNC Lathe operations.

Duration

Machines Used : CNC Lathe **VICTOR – V26 / 110** Fanuc **Oi TD** controller.

Target Group

Technical Managers, Engineers, Technical Assistants, Undergraduates, Technical & Vocational trainees, Machine Operators, Interested Individuals with technical experience.

Number of Participants : Maximum Two Participants per batch.

Expected outcome at the end of program

Will get a basic knowledge about CNC Lathe machine, Operations and programming techniques

CNC- Wire EDM machine

Course Code : 043CNC

Content

- Basic concept of CNC.
- Introduction to CNC Wire EDM machine.
- WEDM Principles.
- General/Operational Features of the Machine
- Modes of Operation (Manual, MDI, Editing, Automatic)
- Safety and Maintenance
- Programming and Simulation (Simple Steps).
- Familiarize to Fanuc FAPT CUT software
- Work piece setting.
- Address speed, Feed, Tool compensation.
- Program Editing/Program Execution
- Hands on sessions on CNC Wire EDM
- Transfer of programs from CAM.

Duration

Machines Used : CNC Wire EDM - **FANUC Alpha 1 ic - 5 Axes machine** With FANUC FAPT CUT Software.

Target Group

Technical Managers, Engineers, Technical Assistants, Undergraduates, Technical & Vocational trainees, Machine Operators, Interested Individuals with technical experience.

Number of Participants : Maximum Two Participants per batch.

Expected outcome at the end of program

Will get a basic knowledge about CNC WEDM machine, Operations and programming techniques. Generate CNC programs via CAD/CAM.

CNC- EDM machine

Course Code : 044CNC

Content

- Basic concept of CNC.
- Introduction to CNC EDM machine.
- EDM Principles.
- General/Operational Features of the Machine
- Modes of Operation (Manual, MDI, Editing, Automatic)
- Safety and Maintenance
- Programming and Operations of the machine
- Work piece setting.
- Program Editing/Program Execution.
- Design of Electrodes.
- Machining of electrode for EDM operations.
- Hands on sessions on CNC EDM machine

Duration

Machines Used : CNC Wire EDM - **FANUC Alpha 1 ic - 5 Axes machine** With FANUC FAPT CUT Software.

Target Group

Technical Managers, Engineers, Technical Assistants, Undergraduates, Technical & Vocational trainees, Machine Operators, Interested Individuals with technical experience.

Number of Participants : Maximum Two Participants per batch.

Expected outcome at the end of program

Will get a basic knowledge about CNC WEDM machine, Operations and programming techniques. Generate CNC programs via CAD/CAM.