

About CRISP

CRISP is established under Indo-German Cooperation agreement as an autonomous organisation of the Dept. of Technical Education and Skill Development, Govt. of M.P.

CRISP provides technical training and consultancy services for Industry Personnel, Government Officers, Faculties of academic and teaching institutions, Students and Jobseekers. CRISP is equipped with the state-of-the-art equipment and technology, latest software, qualified, trained and experienced trainers in the relevant fields.

CRISP has its head office in Bhopal and training centres at several national and international locations.

Other training programmes in Mechanical Engineering offered at CRISP are :

- AutoCAD
- CAD/CAM - CATIA/UGNX/ Pro-E
- AutoCAD Electrical/Mechanical/Civil
- CNC Technology
- Car Mechatronics
- Industrial Pneumatics
- Mechanical Maintenance
- Industrial Hydraulics and Pneumatics



Patron Clients of CRISP



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CNC MILLING



...unleashing the full potential of men & machines

CNC MILLING



Introduction of Course

Computer Numerically Controlled (CNC) machine tools are increasingly being used by the Industries today. The capability of the CNC machines for high repeatability of processing leading to improved product uniformity, accuracy and quality, has resulted in its widespread application, in a very short span.

Seeing to the immense opportunity, CRISP has developed the essential facilities and infrastructure for providing training to acquire competencies related to the use of CNC Machines; the system includes PC Mill 100 operating on Siemens Sinumeric Controllers and BFW BMV50 VMC.

Course Contents

- Fundamentals of CNC system and parts of a CNC Milling Machine
- Principle of Numeric Control System
- Fundamental Geometrical Principles
- Work piece coordinates system
- Absolute and incremental dimension
- Plane designations work planes
- Position of zero points
- Elements of programming language
- CNC Programming
- Positional Data
- Miscellaneous Function
- Dimension absolute/ relative G90/G91
- Dimensions inch/ metric
- Zero offset – G54 to G57 (Fixed)
- Programming Motion Commands
- Programmable zero offset – G58/G59
- Tools selection, Tool change
- Tool and Tool Offset
- Tool setting on the machine

- Tool radius compensation G40, G41, G42
- Arithmetic Parameters and Program Jumps
- Milling operation– surfacing, Step cutting, Profile milling, Slot cutting
- Patterns - Circular, Rectangular
- Drilling and tapping operation,
- Sub Programs - use of subprograms
- Structure of a subprogram

Methodology

The programme consists of a mix of :

- Lectures and presentations
- Demonstrations
- Interactive discussions
- Hands-on practice on CNC machines

Pre-requisite

- Industry personnel with relevant experience.
- Passouts or students pursuing Degree/ Diploma in Mechanical/ Production/ Instrumentation Engineering or equivalent.

Duration

Full time: 5 working days (7 hours/day)

Part time: Four weeks (20 working days, 2 hours/day)

Course Fee

Kindly refer to our training calendar at www.crispindia.com or can be obtained from CRISP counselling desk

Mode of Payment

Cash / Online/ Debit/ Credit Card