



TRAINING



PROTOTYPING



PRODUCT DEVELOPMENT

Training
Advance Manufacturing Technology
CNC - Milling & Turning | Measurement & Metrology

Training

Manufacturing Technologies – Basic

- ◆ Introduction to Manufacturing Execution System
- ◆ Review of machining operations, engineering drawing and metrology
- ◆ Limit, Fits, Tolerances and Surface Roughness Symbols
- ◆ Geometric Dimensioning and Tolerancing (GD&T)
- ◆ Health and Industrial Safety in Manufacturing
- ◆ NC & CNC Machines
- ◆ Process Planning for CNC Machining Parts
- ◆ Programming & Operation of CNC Turning Centre
- ◆ Programming & Operation of CNC Milling Centre
- ◆ Simulation Software (SIEMENS & FANUC)
- ◆ Selection of Tools, Lubrication & Cutting Oil
- ◆ Selection of Cutting Parameters
- ◆ Optimization of CNC Program and Parameters for cycle time reduction and productivity improvement
- ◆ Tooling, Work Holding and other accessories
- ◆ Use of Measuring instruments for quality

Implementation : Theory & Practice

Language : Hindi / English

Duration : 2 Weeks / 80 Hrs

Prerequisite : B.Tech Pursuing Students

(Mechanical/Production/CAD CAM)

Training Location : AKGEC – SIEMENS (AMC)

Training Mode : Regular / Evening / Weekend

Certification Partner: SIEMENS/ FANUC / ASDC/ CGSC



Training

Manufacturing Technologies – Advance

- ◆ Review of Basic Concepts
- ◆ Health and Industrial Safety
- ◆ Digital Manufacturing: Techniques & Applications
- ◆ Advance Programming for CNC Machines
- ◆ Decision making and optimization of Manufacturing System
- ◆ Product Lifecycle of Manufacturing System
- ◆ Computer Aided Manufacturing: 3D Modeling & Program Generation (NX CAM)
- ◆ SIEMENS & Fanuc Controller
- ◆ Simulation Software for Manufacturing
- ◆ Roadmap to implement Industry 4.0 and Smart Factory practices
- ◆ Internet of Things (IoT) in Manufacturing
- ◆ Unconventional Manufacturing Technologies
- ◆ Measurement & Quality Control of Machined Parts

Implementation : Theory & Practice

Language : Hindi / English

Duration : 2 Weeks / 80 Hrs

Prerequisite : B.Tech Pursuing Students

(Mechanical/Production/CAD CAM)

Training Location : AKGEC – SIEMENS (AMC)

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Vocational Training Program Flexible Manufacturing System

- ◆ Flexible Manufacturing System (Components Applications & Benefits)
- ◆ FMS Planning & Implementation
- ◆ Computer Aided Manufacturing
- ◆ Health and Industrial Safety
- ◆ GD & T
- ◆ Cutting oil and Lubricants
- ◆ Selection of Cutting Tools, Holders & Parameters
- ◆ Machine Setting and Operation
- ◆ Part Programming using G and M codes
- ◆ (CNC Turning & Milling)
- ◆ Canned Cycles
- ◆ Hands on Session on CNC Machines
- ◆ Auto CAD
- ◆ Measuring Instruments and their use
- ◆ Operation of Cylindrical Grinding

Implementation	: Theory & Practice
Language	: Hindi / English
Duration	: 6 Weeks / 120 Hrs
Prerequisite	: Diploma/ITI Pursuing Students (Mechanical / Production /CAD CAM / Fitter / Machinist / Turner)
Training Location	: AKGEC – SIEMENS (AMC)
Training Mode	: Regular / Evening / Weekend
Certification Partner	: SIEMENS/ FANUC / ASDC/ CGSC



Training Modules

Manufacturing



- 🔗 CNC Turning
- 🔗 CNC Milling
- 🔗 Cylindrical Grinding
- 🔗 CNC Controller (SIEMENS & FANUC)
- 🔗 Programming & Simulation Software (SIEMENS & FANUC)
- 🔗 Industrial Safety
- 🔗 CAD & CAM

Measurement



- 🔗 Coordinate Measurements (CMM)
- 🔗 3 D Scanning
- 🔗 Contour Measurements
- 🔗 Surface Roughness Measurement
- 🔗 Vision Measurement
- 🔗 GD & T
- 🔗 Measuring Tools & Gauges

The perfect balance
between theory and practice ...



40 : 60



CENTRE ACTIVITIES



TRAINING PARTNERS



INDUSTRY PARTNERS

SIEMENS



KUKA

CONTACT INFORMATION

AKGEC-SIEMENS Advance Manufacturing Centre

AKGEC SKILLS FOUNDATION

AKGEC Campus

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