

**INDUSTRIAL AUTOMATION**  
**Human Machine Interface**  
**(36h)**

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**Who should attend:**

Technicians, Supervisors, Engineers and Designers, who are involved in the design/operation of PLC & HMI in industrial automation.

**Prerequisite:**

More beneficial if have some experience on programmable logic controllers.

**How will benefit:**

This 36-hour training program provides participants with hands-on experience in the troubleshooting, maintenance & programming of the SIEMENS family of HMI. Hardware and software troubleshooting techniques are heavily emphasized throughout the course.

- ✓ Complete understanding of HMI based Hardware & Software tools for new development & system alteration
- ✓ Downtime reduction in case of emergency problems
- ✓ Complete Understanding of the Plant Operation
- ✓ Prepared hands on for fault removal and maintenance tasks & many more

**Objective:**

Hands on application course focuses on the integration of HMI (Human Machine Interface) and PLC using WINCC Flexible.

**Contents:**

**Introduction to Human Machine Interface (HMI) in industrial automation technology**

- ✓ Human Machine Interface
- ✓ Introduction to HMI
- ✓ Hardware description
- ✓ Cables & connectivity
- ✓ Preparing for Connection
- ✓ Hardware Settings and Connections
- ✓ Connecting to the Host from the RS-232C Port
- ✓ Connecting to the Host from the RS-422A/485 Port
- ✓ System Menu Operation

**Introduction to Windows-based HMI configuration software**

- ✓ Overview
- ✓ Setup, Starting & Exiting
- ✓ Screen Types & Operations
- ✓ Object Operations
- ✓ System settings
- ✓ Testing, validating & transferring data

- ✓ Printing
- ✓ Importing/Exporting CSV files

**Project development guidelines to HMI creation and application techniques and practical exercise**

- ✓ New Project development
- ✓ Development for existing setup

**Delivering HMI based projects**

- ✓ Testing
- ✓ Troubleshooting
- ✓ Deployment
- ✓ Documentation

**Hardware & Software used:**

- ✓ PLC S7-200
- ✓ Microwin
- ✓ WINCC Flexible
- ✓ Microsoft office, Microsoft Visio
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**FOR REGISTRTION & INFORMATION:**

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