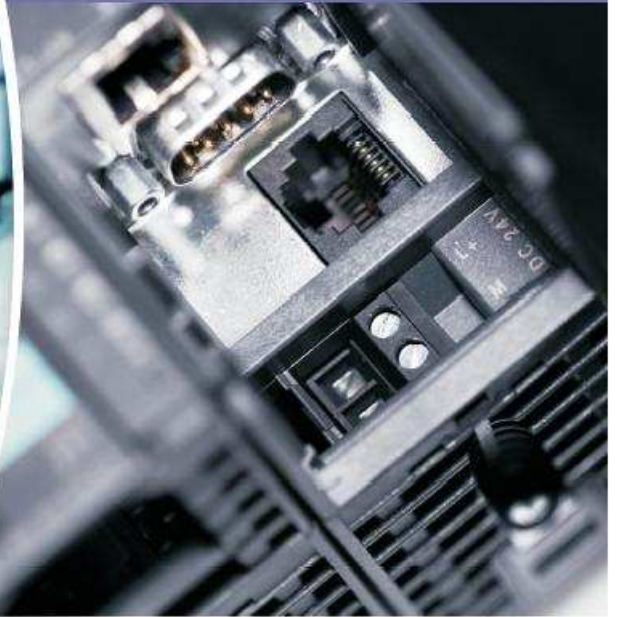


**EssKey**<sup>TM</sup>

**LEVEL II**



**SIEMENS**  
**AUTOMATION**  
**AND CONTROL**

**Certification Programme**



### ADVANCE AUTOMATION ( 30 HRS)

- ◆ High Range Application- PLC S
- ◆ Specification of High range Automation
- ◆ Hardware Details & Wiring Details
- ◆ Programming Software -available
- ◆ Practical Exposure

### APPLICATION OF HIGH RANGE PLC

- ◆ Continuous PID Controller
- ◆ High Speed Counter
- ◆ RTC Function & Configuration
- ◆ Information of Complex Data types.
- ◆ Practical Exposure

### COMMUNICATION & NETWORKING (30 HRS)

#### PROFIBUS COMMUNICATION

- ◆ Communication with Distributed I/O
- ◆ Communication with HMI
- ◆ Communication with DRIVES
- ◆ Communication with Process Instruments
- ◆ Practical Exposure

#### ETHERNET COMMUNICATION

- ◆ Communication with Distributed I/O
- ◆ Practical Exposure

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A1 SCADA Development(30 Hrs)	OR	A2 DRIVE Application(30 Hrs)	OR	A3 Switchgear Application(30 Hrs)	OR	A4 Process Instrumentation Application( 30 Hrs)
Introduction to standard architecture of SCADA		Block diagram of Drive System		Fundamentals of the Actuator-Sensor-Interface (AS-I)		Mag Flow meter technology
Introduction to AS Hardware		Introduction to Product Variants		Introduction to the system components		Mass Flow meter technology
Creating the project and Configuring Hardware (AS & OS)		Basic Hardware components & their details		Setup and configuring the Device		Ultrasonic Flow meter technology
Working with Plant Hierarchy		Drive-CLIQ for interconnection of components		AS-Interface master & slave Technology		Ultrasonic Level Technology
Working , Compiling, downloading & testing CFC & SFC charts and SFC Type		Automatic/Manual System Configuration with Software		Startup, test and diagnostics facilities & Addressing device & Safety at Work		Radar Level Technology
Compiling Operator Station. Creating process pictures in Graphics editor		Topology comparison, Graphical User		Introduction to 3 phase Motor Control & management Devices		Capacitance Level Technology
User interface in Process Control mode, Working with standard faceplates		Fault Diagnostics with Trace, Measuring Function		Parameterization and diagnostics with Motor control devices		Pressure Measurement
Messages and Trends		Project Backup		Introduction To Microprocessor based Circuit Breakers		Temperature Measurement
User Administration		Application Example.		Operating tools and software		Electropneumatic Positoner

#### Examination :

- A - Module test by Esskay Services
- B - Final Exam by Siemens Ltd.

#### Certification :

- A - Participation Certificate from Siemens Ltd.
- B - Course Certificate from Esskay Services

includes Course Materials/Stationery

**Duration : 3 months • Batch : Mon / Wed / Fri  
Weekend batches also available : Sat/ Sun**