

Overview

Smart Factory takes current manufacturing processes to Industry 4.0 standards; highly agile, efficient and automated production lines capable of data generation and collation. Combined with analytics and machine learning, the factory of the future will have predictive and prescriptive capabilities, contributing to higher productivity & boundless innovation.

The Malaysian Smart Factory (MSF) 4.0 program @ SHRDC offers smart factory competency training through hands-on and online/remote learning approaches, ideal for relevant skillset and talent development towards an Industry 4.0 ready workforce in Malaysia.

Target audience

Engineers, Technicians, Technical Managers, Production Managers, Academia with relevant background.

Modular Options & Duration:

- Fundamental: 4 Days
- Intermediate: 2 Days
- Advanced: 3 Days

Upon successful completion of training, participants will be able to:

Fundamental:

- ▶ Determine the software and hardware requirements for PLC
- ▶ Draw PLC input and output wiring diagram
- ▶ Connect sensors and actuators to PLC
- ▶ Construct basic PLC program
- ▶ Run test to the constructed program to check compliance with the required operation

Intermediate:

- ▶ Define FB, FC and DB
- ▶ Solve mathematical operation using PLC program
- ▶ Connect analog input to PLC
- ▶ Construct PLC program for analog signals
- ▶ Run test to the constructed program to check compliance with the required operation

Advanced:

- ▶ Create a sequence flowchart using a Grafset software
- ▶ Construct sequential control operation using PLC
- ▶ Create scenario using Factory IO software
- ▶ Integrate Factory IO scenario with PLC program
- ▶ Run test to the constructed program to check compliance with the required operation

Cost per program:

RM8,480(HRDF SBL Claimable)

Cost per module:

- Fundamental:RM3,180 (HRDF SBL Claimable)
- Intermediate: RM2,120 (HRDF SBL Claimable)
- Advanced: RM3,180 (HRDF SBL Claimable)

Cost fee is inclusive 6% SST

