



Course Contents

SIEMENS SINUMERIK 840D OPERATING COURSE (ND-84D-B) – 5 days



HRDF CLAIMABLE
*Subject to Approval

Requirements

This course takes a systems approach addressing the Siemens Sinumerik hardware configuration plus basic level of programming.

Practical exercises for reinforcing the knowledge gained are carried out on the SINUMERIK training Case. Basic knowledge of Simatic PLC.

Objectives

Introduction to Siemens automation world will be given before. Introduction to Siemens products used will be given. Components of the Sinumerik training related to 810D and focus on PCU50 and 840D PL control. This course is the first in a three part series which builds the very basic skills with Siemens products and engineering software in project design and application sustaining.

A fundamental understanding of the whole system will enable you to precisely describe problems on your machine tool and solve them.

Topics

After attending the course, you can do the following:

- Sinumerik System Overview and Configuring
- Operator Panel and machine control panel
- Components of a machine tools
- Fundamentals of programming
- Structure and tasks of a CNC Control
- Backing up program data
- Exercise will be to setup the system from factory setting



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Course Certificate

Certificate of participation will be awarded after the training.

Contact Information

SIEMENS MALAYSIA SDN. BHD. (93008-X)
GST Reg No. 000956203008

Digital Factory/ Process Industries & Drives
Level 1, Reception, CP Tower, No. 11, Jalan 16/11,
Pusat Dagang Seksyen 16, 46350 Petaling Jaya, Selangor.

Helpdesk: 1800 808 8888

Fax: +60-3-7955 3720

E-mail: industry.my@siemens.com

e-Pass: siemens.asia/e-pass_v2/ASEAN

Bank Details

Bank Name: Deutsche Bank (M) Sdn Bhd

Bank Account Number : 0020768000

Bank Address : 18th – 20th Floor, Menara IMC 8,
Jalan Sultan Ismail,
50250, Kuala Lumpur

Bank Swift Code : DEUTMYKLXXX

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Day-Wise Schedule

Day 1

1. Sinumerik System overview
 - System overview
 - Hardware Identification
 - Protection Levels
 - Time and Date Settings

Day 2

2. Data Transfer
 - Save, Restore and External Data Backup-Archives
 - HMI Backup with Ghost
 - Battery and Fan Exchange
 - LED Diagnosis-Drive & HMI

Day 3

3. PLC and Drive Diagnosis
 - PLC LED Diagnosis
 - Software Versions
 - System Resources
 - Diagnosis of PLC I/O & PLC Periphery

Day 4

4. Troubleshooting
 - Pushbutton Tests & PLC Alarm Structure
 - Alarm Structure & Interpretation of Alarm Log
 - Drive Diagnostic Parameters and Machine Data
 - Practical on the above

Day 5

5. Documentation & Tools
 - Reference - Encoder Adjustment
 - Digital Inputs
 - Saving the PLC Program with Step7
 - IBN Start-up Tool
 - Exercise will be to setup the system from factory setting

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Time-wise Schedule

| Day | Time | Topics |
|---------|---|---|
| Day – 1 | 09:00 Hrs – 10:00 Hrs 10:00 Hrs – 13:00 Hrs 14:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs | System overview Hardware Identification Protection Levels Time and Date Settings |
| Day – 2 | 09:00 Hrs – 10:30 Hrs 10:45 Hrs – 13:00 Hrs 14:00 Hrs – 15:30 Hrs 15:45 Hrs – 17:00 Hrs | Save, Restore and External Data Backup-Archives HMI Backup with Ghost Battery and Fan Exchange LED Diagnosis-Drive & HMI |
| Day – 3 | 09:00 Hrs – 10:30 Hrs 10:45 Hrs – 13:00 Hrs 14:00 Hrs – 15:30 Hrs 15:45 Hrs – 17:00 Hrs | PLC LED Diagnosis Software Versions System Resources Diagnosis of PLC I/O & PLC Periphery |
| Day – 4 | 09:00 Hrs – 10:30 Hrs 10:45 Hrs – 13:00 Hrs 14:00 Hrs – 15:30 Hrs 15:45 Hrs – 17:00 Hrs | Pushbutton Tests & PLC Alarm Structure Alarm Structure & Interpretation of Alarm Log Drive Diagnostic Parameters & Machine Data Practical exercise |
| Day – 5 | 09:00 Hrs – 10:30 Hrs 10:45 Hrs – 13:00 Hrs 14:00 Hrs – 15:30 Hrs 15:45 Hrs – 16:45 Hrs 16:45 Hrs – 17:00 Hrs | Reference - Encoder Adjustment Digital Inputs Saving the PLC Program with Step7 Practical exercise Feedback / Q&A |

Break Timings:

| | |
|-----------------------|---------------------|
| 10:30 Hrs – 10:45 Hrs | Morning Tea Break |
| 13:00 Hrs – 14:00 Hrs | Lunch Break |
| 15:30 Hrs – 15:45 Hrs | Afternoon Tea Break |
| 17:00 Hrs – 17:15 Hrs | Recess & End of Day |