

Training Program On Sinamics G120



Centre for Research and Industrial Staff Performance
(Established under Indo-German Technical Co-operation Agreement)

Introduction of Course

Application of Electrical motors range from simple applications like controlling the speed of fans or pumps for energy conservation, to complex applications like variable speed and tension control.

For achieving variable speed control of electrical motors driving various types of industrial loads, electrical drives are becoming more and more popular.

Solid state drives using thyristors and IGBT are gaining popularity due to their reliability, compactness and capability of precise control. Digital drives are rapidly replacing analog drives, owing to their improved static and dynamics control capability. In view of above developments, it is essential that engineers and technicians from industries and institutions should have adequate familiarization with modern Sinamics drives..

Course Contents

- Classifications of AC Motors.
- Speed Control of AC Motors.
- Expectation from Digital Drives.
- principle of operation of the SINAMICS G120C inverter .
- Control Unit CU.
- Power Module PM.
- Parameterization, data backup and diagnostics with PG.
- Starter PC tool.
- Setpoint channel and closed-loop control.
- Control signals and signal interconnections.
- Inverter functions.
- Power Electronics Components Teating Diode, Thyristor, IGBT.
- Diagnostics/Fault finding.

Methodology

The training Program consist of a mix of

- Lectures And presentation
- Demonstrations
- Interactive discussion
- Hands on Practice (only in offline trg.)

Mode of Training & Duration

- Full Time :-03 Working Days. (6 Hrs/ day)
- Part time :- 12 Working Days (1.5 Hrs/day)
- Online Instructor Led Training:- 12 Working Days (1.5 Hrs/day)

Pre-requisite

- Industry personnel with relevant Experience
- Passouts or Students pursuing Degree/ Diploma in Electrical / Electrical & Electronics. Engineering or equivalent.

Course Fee

11000/- Per Participant (Non-Residential) + Service Tax

14000/- Per Participant (Residential) + Service Tax

Fee will be subsidised for Jobseekers/ students .