

## Training Programme on Basic Industrial Drives (CU-DRV)

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### Objectives

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Will have a basic or fundamental knowledge of DC/AC Variable speed drives  
Know about the product specifications, range, hardware / constructional details and features of the product  
Will be able to perform drive start up and parameterize drive

### Target Group

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Diploma / Degree students in Electrical / Electronics/ Instrumentation/  
Electronics & Telecommunication/ Biomedical/ Mechanical/ Production & Mechatronics Engineering

### Content

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Brief Basic Power Electronics (including Thyristors, Power-Transistors & IGBTs)  
DC Motor Basics (construction, principle of operation, T-N Characteristics etc.)  
DC Drives Basics (Block diagram, 1Q-4Q principle of operation, T-N Curves etc.)  
Selections, Calculations & applications of typical DC drives  
Siemens DC Drives (6RA80) - Ratings, Specs, features, options & applications  
AC Motor Basics (construction, principle of operation, T-N Characteristic etc.)  
AC Drives Basics (Block diagram, 1Q-4Q principle of operation, T-N Curves etc.)  
Selections, Calculations & applications of typical AC drives  
AC Drives (Sinamics S & G)-Ratings, Specs, features, options & applications  
MEDIUM VOLTAGE (MV Drives & Motors)  
a) MV Motor types & Fundamentals (including starting methods, options/features)  
b) MV Motor offers from Germany (separately for Induction & Synchronous Motor)  
c) MV Converter Basics & types (Voltage, Current Source & Cyclo-converters)  
d) Siemens MV Converters (Sinamics GM, Simovert-S and Perfect Harmony)  
e) Selection, configuration & Applications of MV Drive systems  
Short briefing on MV Transformers along with their options & protections

### Prerequisites

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Basics knowledge of Electrical & Electronics

### Type

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Face-to-face training

### Duration

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40 hours

### Language

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en

### Fee

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Contact us or Email us to enquire about the fee structure