



ASSETS PROTECTION COMPANY
SECURITY AND SAFETY TRAINING CENTER
(A DIVISION OF SAUDI PETRO GAS CO.)

General Electrical And Electronics

Objectives:

The objective of this course is to provide, enhance and promote safe technical knowledge and practices concerning actual day-to-day tasks of the trainees, wherein after the completion of the program, the participant will be able to:

- Understand and exhibit the adherence to Safe Working Practices.
 - Understand the basic electrical concepts and machines as well as to various electronic components for their use in Industry
 - Understand the concepts of systems like Drives, AC & DC Motors, Rectifier System, i.e. Thyristors, Counters, Timers, Frequency Meters, etc., and be able to carry out preventive & breakdown maintenance of the same
 - Have an overview of the basic operation and maintenance activities of Switchgears & Circuit Breakers
 - Study and interpret electrical drawings, i.e. power circuits, control circuits, relay logics, electronic circuits, etc.
 - Learn practical and safe working applications
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Course Subjects:

- AC Motors
 - DC Motors
 - Circuit Protection
 - Fault Diagnosis
 - Electronic Circuits and Controls
 - Transformers
 - Switchgears
 - DC Drive Systems
 - AC Drive Systems
 - Field Devices
 - Measuring Instruments
 - PLC
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Participants:

- Technical Staff, Maintenance and Production Supervisors

Methodologies:

- Pre-Training Assessment
- Class Room sessions
- Plant / Work visits
- Evaluation – Written & Practical Test, Oral / Viva-Voce Test

Duration:

- Evaluated based on Trainees' Profile / Client Needs
- Eight (8) to twelve (12) Weeks in general at 5 days of 8 hours.

Course Location:

- Security and Safety Training Center, Dhahran or at Client's Suitable Venue

Language:

- English / Arabic