



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

Electrical Fault Finding

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:

- State the three components of Electrical Energy that are measured
 - Recognize main types of Electrical Instruments:
 - Ammeter, Voltmeter, Ohmmeter, Multimeter (AVO), Megger, Voltage Indicator
 - Identify the circumstances in which each instrument can be used
 - List the common faults that are traced by these Electrical Instruments
 - Select the appropriate measuring instrument and safe method of checking to identify the common faults in simple circuits and equipment
 - Improved equipment productivity through minimization of delay
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Course Subjects:

- Introduction to Basic Electrical Circuit Principles
 - Measurement of **Current** using Ammeter, AVO & Digital Multimeter
 - Basic Electrical Circuit Principle
 - Measurement of **Voltage** using Voltmeter AVO & Digital Multimeter
 - Types of Measuring Instruments
 - Construction of Measuring Instruments
 - Measurement of Resistance using Ohmmeter, AVO & Digital Multimeter
 - Working Principle of Megger
 - Construction of Megger
 - Measurement of Insulation Resistance using Megger
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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:

- Two (2) to four (4) Weeks in general at 5 days of 8 hours each.

Course Location:

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

Language:

- English / Arabic