Global Horizon
TRAINING CENTER

Training Course:
Electrical Faults: Causes, Analysis, Detection & Remedies

4 - 8 October 2026
Sharm El-Sheikh (Egypt)
Sheraton Sharm Hotel

Training Course:
Electrical Faults: Causes, Analysis, Detection & Remedies

Training Course code: EN6056 From: 4 - 8 October 2026 Venue: Sharm El-Sheikh (Egypt) - Sheraton Sharm Hotel Training Course Fees: 5100 Euro

Introduction

Electrical faults can lead to equipment damage, operational downtime, safety hazards, and financial losses. Understanding the causes, detection methods, and corrective actions is essential for maintaining reliable and safe electrical systems in industrial and commercial environments.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to analyze, detect, and resolve electrical faults, ensuring system reliability and operational continuity.

Course Objectives

By the end of this program, participants will be able to:

- Identify different types of electrical faults and their causes
- Analyze fault behavior in electrical systems
- Apply diagnostic and detection techniques
- Use testing and monitoring tools effectively
- Interpret fault data and system responses
- Implement corrective and preventive measures
- Improve system reliability and safety
- Ensure compliance with electrical standards and best practices

Target Audience

This program is designed for:

- Electrical and Power Engineers
- Maintenance and Reliability Engineers
- Technicians and Electricians
- Plant and Facility Engineers
- Operations Personnel
- Professionals responsible for electrical systems

Outline

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Day 1: Fundamentals of Electrical Faults

- Overview of electrical systems and components
- Types of faults short circuit, overload, earth fault
- Causes of electrical faults
- Effects of faults on systems
- Safety considerations

Day 2: Fault Analysis in Electrical Systems

- Fault current calculation basics
- Symmetrical and unsymmetrical faults
- System behavior during faults
- Protection coordination concepts
- Fault analysis methods

Day 3: Fault Detection and Diagnostic Techniques

- Monitoring and detection methods
- Use of testing equipment multimeters, insulation testers
- Protective relays and fault indicators
- Data interpretation and analysis
- Condition monitoring

Day 4: Troubleshooting and Remedies

- Identifying root causes of faults
- Corrective and preventive actions
- Maintenance strategies
- Repair techniques and best practices
- System restoration procedures

Day 5: Reliability Improvement and Case Studies

- Improving system reliability
- Preventive maintenance planning
- Risk assessment and mitigation
- Compliance with standards IEC, IEEE
- Case studies and real-world applications

Registration form on the Training Course: Electrical Faults: Causes, Analysis, Detection & Remedies

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....
Position: .....
Telephone / Mobile: .....
Personal E-Mail: .....
Official E-Mail: .....

Company Information

Company Name: .....
Address: .....
City / Country: .....

Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....
Position: .....
Telephone / Mobile: .....
Personal E-Mail: .....
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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
- ☐ Please invoice me
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Easy Ways To Register

Telephone: +201095004484 to provisionally reserve your place.	Fax your completed registration form to: +20233379764	E-mail to us : info@gh4t.com or training@gh4t.com	Complete & return the booking form with cheque to:Global Horizon 3 Oudai street, Aldouki, Giza, Giza Governorate, Egypt.