



*Training Course:
Occupational Safety and Electrical Security*

*4 - 15 July 2027
Cairo (Egypt)*

Training Course: Occupational Safety and Electrical Security

Training Course code: EN235689 From: 4 - 15 July 2027 Venue: Cairo (Egypt) - Training Course Fees: 6950 € Euro

Introduction

Occupational safety and electrical security are critical components of any industrial and operational environment. Electrical hazards—such as shock, arc flash, short circuits, and equipment failure—pose significant risks to personnel, assets, and operations if not properly managed.

This 10-day comprehensive training program, developed by Global Horizon Training Center, provides an integrated approach to occupational safety and electrical risk management. It combines safety principles, electrical protection systems, regulatory compliance, and practical field applications.

Participants will gain the knowledge and skills required to identify hazards, implement safety measures, and ensure secure and compliant electrical operations in industrial environments.

Course Objectives

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

- Understand occupational safety principles and electrical hazards
- Identify and assess electrical risks in the workplace
- Apply safety standards and regulatory requirements
- Implement electrical protection and control measures
- Ensure safe operation and maintenance of electrical systems
- Conduct safety audits and inspections
- Respond effectively to electrical incidents and emergencies
- Promote a strong safety culture

Target Audience

- Electrical and Power Engineers
- Maintenance and Reliability Engineers
- HSE and Safety Professionals
- Technicians and Supervisors
- Industrial and Facility Personnel

Outline

Day 1: Fundamentals of Occupational Safety

- Safety principles and culture
- Types of workplace hazards
- Risk assessment basics
- Safety management systems

Day 2: Electrical Hazards and Risk Identification

- Types of electrical hazards shock, arc flash, burns
- Causes of electrical accidents
- Risk identification and evaluation
- Case studies

Day 3: Electrical Safety Standards and Regulations

- Overview of standards IEC, NFPA 70E, OSHA
- Compliance requirements
- Safety policies and procedures
- Legal responsibilities

Day 4: Electrical Protection Systems

- Protection devices relays, breakers, fuses
- Grounding and bonding
- Overcurrent and fault protection
- Coordination of protection systems

Day 5: Safe Work Practices and Procedures

- Lockout/Tagout LOTO procedures
- Permit-to-work systems
- Safe isolation and switching
- Working in energized environments

Day 6: Arc Flash and Electrical Incident Prevention

- Arc flash hazards and analysis
- Personal protective equipment PPE
- Safe approach distances
- Incident prevention strategies

Day 7: Inspection, Testing, and Maintenance Safety

- Safe inspection and testing procedures
- Maintenance practices for electrical systems
- Use of testing instruments
- Hazard mitigation during maintenance

Day 8: Emergency Response and Incident Management

- Responding to electrical accidents

- First aid for electrical injuries
- Fire safety and suppression systems
- Emergency planning

Day 9: Safety Audits and Continuous Improvement

- Conducting safety audits and inspections
- Identifying gaps and corrective actions
- Performance monitoring
- Building a safety culture

Day 10: Integrated Safety Management & Final Workshop

- Developing a comprehensive safety program
- Risk assessment and mitigation planning
- Case studies and scenario-based exercises
- Group project and presentation
- Final review and evaluation

Registration form on the Training Course: Occupational Safety and Electrical Security

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

Delegate Information

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Company Information

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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
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