

# € TRAINING

Advanced Electrical Maintenance



22 - 26 September 2024  
Cairo (Egypt)



# Advanced Electrical Maintenance

REF: O2391 DATE: 22 - 26 September 2024 Venue: Cairo (Egypt) - Fee: 4465 Euro

## Introduction:

This training program offers participants an in-depth exploration of advanced methodologies in electrical system diagnostics and repairs. By mastering advanced isolation techniques and repair strategies, participants will enhance their ability to maintain and optimize electrical systems.

## Program Objectives:

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

- Perform advanced electrical troubleshooting procedures.
- Implement sophisticated repair techniques for electrical systems.
- Utilize advanced isolation methods to identify and address electrical faults.
- Enhance safety protocols during electrical repairs and isolations.
- Optimize electrical system performance through effective troubleshooting and repairs.

## Targeted Audience:

- Electrical Engineers.
- Maintenance Technicians.
- Facility Managers.
- Electrical Contractors.
- Safety Officers.
- Industrial Electricians.

## Program Outline:

### Unit 1:

#### Advanced Electrical Troubleshooting Techniques:

- Advanced principles of electrical troubleshooting.
- Utilizing diagnostic tools and equipment effectively.

- Analyzing complex electrical circuits and systems.
- Developing systematic troubleshooting approaches.
- Case studies on advanced troubleshooting scenarios.

## Unit 2:

### Advanced Repair Strategies for Electrical Systems:

- Understanding advanced repair techniques for electrical components.
- Repairing steps for damaged wiring, connectors, and components.
- Replacing faulty electrical components with precision.
- Ensuring compliance with safety standards during repairs.

## Unit 3:

### Advanced Isolation Methods for Electrical Faults:

- Techniques for isolating electrical faults safely and efficiently.
- Steps for implementing lockout/tagout procedures for isolation.
- Utilizing isolation devices and barriers effectively.
- Performing voltage and continuity tests during isolation.
- Real-world examples demonstrating advanced isolation methods.

## Unit 4:

### Safety Protocols for Electrical Repairs and Isolations:

- Importance of safety protocols in electrical repairs and isolations.
- Identifying electrical hazards and implementing preventive measures.
- Personal protective equipment PPE requirements for electrical work.
- Emergency response procedures for electrical incidents.
- Safety practices during electrical work.

## Unit 5:

## Optimization of Electrical System Performance:

- Strategies for optimizing electrical system performance.
- Conducting preventive maintenance to avoid future issues.
- Steps for implementing, monitoring and diagnostic tools for ongoing performance assessment.
- Identifying opportunities for efficiency improvements in electrical systems.
- Case studies highlighting successful optimization initiatives.