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Course Name

Fault Analysis & Troubleshooting in Power Cables

Sector Name

Electrical Engineering

Document Type

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Fault Analysis & Troubleshooting in Power Cables

Course Introduction

This program focuses on identifying, analyzing, and resolving faults in power cable networks.

Participants will learn systematic troubleshooting methods to detect root causes of cable failures.

It enhances decision-making skills for maintaining uninterrupted power system performance.

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Fault Analysis & Troubleshooting in Power Cables

Target Audience

- ✓ Electrical Engineers in power distribution and transmission
- ✓ Maintenance and Testing Technicians
- ✓ Reliability and Design Engineers involved in cable systems

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Learning Objectives

Equip engineers and technicians with practical skills to identify, analyze, and troubleshoot faults in LV, MV, and HV cables, enhancing system reliability and minimizing downtime

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Fault Analysis & Troubleshooting in Power Cables

Course Outline

✓ DAY ONE

Introduction to Cable Faults

- Types of Cable Faults: Open Circuit, Short Circuit, Insulation Breakdown
- Causes of Faults: Environmental, Mechanical, Electrical Stress • Cable Fault Indicators and Symptoms
- Standards and Safety Procedures for Fault Handling

Learning Outcomes:

- Identify common fault types and causes
- Understand fault symptoms and their impact
- Apply safety procedures during fault analysis

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Course Outline

✓ DAY TWO

Fault Detection Techniques

- Insulation Resistance and Continuity Testing
- Time Domain Reflectometry (TDR)
- Bridge Methods for Fault Location
- Partial Discharge Analysis
- Case Studies: Real Fault Scenarios and Lessons Learned

Learning Outcomes

- Use advanced techniques to detect cable faults accurately
- Interpret test results for effective troubleshooting
- Apply diagnostic tools for LV, MV, HV systems

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Course Outline

✓ DAY THREE

Fault Troubleshooting & Practical Workshop

- Fault Rectification Strategies: Repair vs Replacement
- Preventive Measures to Avoid Recurring Faults
- Hands-on Workshop: Fault Detection and Repair Simulation
- Safety and Compliance Review (IEC, IEEE, Local Codes)
- Open Discussion and Q&A

Learning Outcomes

- Implement practical fault troubleshooting methods
- Make informed decisions on repair or replacement
- Apply preventive measures to enhance cable reliability

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 26, 2027	July 28, 2027	3 days	4250.00 \$	UAE , Dubai
Sept. 1, 2026	Sept. 3, 2026	3 days	4250.00 \$	KSA , Riyadh
Nov. 17, 2026	Nov. 19, 2026	3 days	4950.00 \$	England , London
June 7, 2027	June 9, 2027	3 days	2150.00 \$	Virtual , Online

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