



Consulting and Training | Reach New Heights

Course Name

High Voltage Testing & Diagnostics for Cables

Sector Name

Electrical Engineering

Document Type

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High Voltage Testing & Diagnostics for Cables

Course Introduction

This course focuses on advanced testing techniques used to evaluate high voltage cable performance.

It covers diagnostic tools and methods for detecting insulation weaknesses and potential failures.

Participants will develop skills to ensure safe and reliable operation of HV cable systems.

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Target Audience

- ✓ Electrical Engineers working with high voltage cable systems
- ✓ Maintenance and Testing Technicians
- ✓ Design and Project Engineers involved in HV networks

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Learning Objectives

Enable engineers and technicians to perform high voltage testing, diagnostics, and condition assessment of LV, MV, and HV cables to ensure system reliability and safety.

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Course Outline

✓ DAY ONE

Fundamentals of High Voltage Testing

- Overview of HV Cable Systems and Applications
- Principles of High Voltage Testing: Purpose & Standards Types of HV Tests: AC, DC, and Impulse Testing
- Safety Precautions in HV Testing
- Test Equipment: Transformers, Hipots, and Measuring Devices

Learning Outcomes :

- Understand HV testing principles and methods
- Identify suitable testing types for specific cables
- Apply safety measures during HV testing

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Course Outline

✓ DAY TWO

Diagnostic Techniques and Procedures

- Insulation Resistance Measurement
- Tan Delta / Dissipation Factor Testing
- Partial Discharge Detection and Analysis
- Fault Location Techniques: Time Domain Reflectometry (TDR), Bridge Methods
- Case Studies: Common Faults and Test Interpretation

Learning Outcomes:

- Conduct advanced diagnostic tests on HV cables • Detect and locate cable faults accurately
- Analyze test results for maintenance decisions

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Course Outline

✓ DAY THREE

Maintenance, Troubleshooting, and Practical Workshop

- Condition Assessment of HV Cables
- Preventive and Predictive Maintenance Strategies
- Repair and Replacement Decision-making
- Hands-on Workshop: Performing HV Tests and Diagnostics
- Safety and Standards Review (IEC, IEEE, Local Codes)
- Q&A and Discussion

Learning Outcomes

- Implement condition-based maintenance strategies
- Perform HV tests safely and accurately
- Make informed decisions on cable repair or replacement

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 19, 2027	July 21, 2027	3 days	2150.00 \$	Virtual , Online
Sept. 1, 2026	Sept. 3, 2026	3 days	4250.00 \$	UAE , Dubai
Oct. 20, 2026	Oct. 22, 2026	3 days	4250.00 \$	KSA , Riyadh
Dec. 8, 2026	Dec. 10, 2026	3 days	4950.00 \$	England , London

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