



Consulting and Training | Reach New Heights

Course Name

Power Cable Engineering (LV / MV / HV)

Sector Name

Electrical Engineering

Document Type

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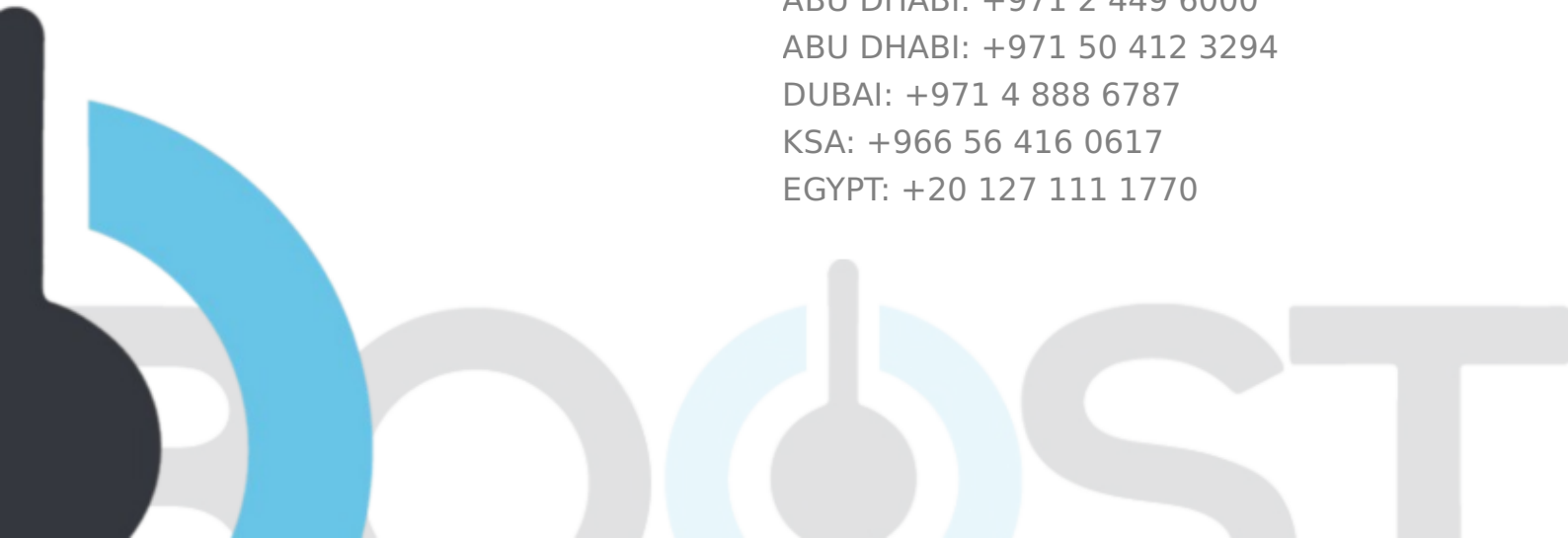
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Power Cable Engineering (LV / MV / HV)

Course Introduction

This program provides a comprehensive understanding of low, medium, and high voltage power cable systems, including design principles, selection criteria, and installation practices.

It focuses on improving engineers' ability to evaluate cable performance under different operating conditions.

Participants will gain practical insights into modern power cable technologies used in critical infrastructure

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Target Audience

- ✓ Electrical Engineers in power generation, transmission, and distributio
- ✓ Maintenance Engineers and Technicians responsible for cable systems
- ✓ Design Engineers involved in electrical network projects

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Learning Objectives

Equip engineers with advanced knowledge of design, selection, installation, and operation of power cables (LV, MV, HV) with practical skills for troubleshooting and maintenance

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Power Cable Engineering (LV / MV / HV)

Course Outline

✓ DAY ONE

Fundamentals and Cable Selection

- Introduction to Power Cables: LV / MV / HV
- Cable Types and Construction: Materials, Insulation, Shielding • Voltage Levels and Applications
- Current Carrying Capacity & Derating Factors
- Short Circuit Ratings and Temperature Considerations
- Selection Criteria for LV, MV, and HV cables

Learning Outcomes:

- Understand cable types and construction
- Select appropriate cables for different voltage levels
- Calculate current ratings and consider environmental factors

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Course Outline

✓ DAY TWO

Installation and Testing

- Cable Installation Techniques: Underground, Overhead, Indoor
- Jointing, Termination, Bending Radius Guidelines
- Cable Tray and Conduit Design
- Cable Testing: Insulation Resistance, Continuity, Tan Delta
- Fault Detection and Troubleshooting
- Case Studies on Installation Challenges

Learning Outcomes:

- Perform safe installation of LV, MV, HV cables
- Conduct standard cable tests and analyze results
- Troubleshoot common cable faults

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Power Cable Engineering (LV / MV / HV)

Course Outline

✓ DAY THREE

Operation, Maintenance, and Safety

Cable System Operation: Load Management & Monitoring Maintenance Strategies: Preventive and Predictive

Reliability and Life Expectancy of Cables

Safety Procedures and Standards (IEC, IEEE, Local Codes)

Practical Workshop / Simulation: Fault Detection & Repair

Q&A and Open Discussion

Learning Outcomes:

Apply maintenance and monitoring strategies

Ensure safe handling of cables

Solve practical cable engineering problems

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 10, 2027	May 12, 2027	3 days	2150.00 \$	Virtual , Online
June 21, 2027	June 23, 2027	3 days	4250.00 \$	UAE , Dubai
Aug. 8, 2027	Aug. 10, 2027	3 days	4250.00 \$	KSA , Riyadh
Oct. 20, 2026	Oct. 22, 2026	3 days	4950.00 \$	England , London

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