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Course Name

Cable Manufacturing Process & Troubleshooting

Sector Name

Electrical Engineering

Document Type

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Cable Manufacturing Process & Troubleshooting

Course Introduction

This course covers the complete manufacturing lifecycle of power cables, from raw materials to final testing.
It highlights common production issues and how to troubleshoot defects effectively.
Participants will gain practical knowledge to improve quality and reduce manufacturing errors.

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Cable Manufacturing Process & Troubleshooting

Target Audience

✓ Electrical and Production Engineers in cable manufacturing plants

✓ Quality Control and Testing Engineers

✓ Maintenance Technicians involved in cable production

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Learning Objectives

Provide engineers and technicians with in-depth knowledge of the cable manufacturing process, quality control, and troubleshooting techniques to ensure efficient production and reliable performance.

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Cable Manufacturing Process & Troubleshooting

Course Outline

✓ DAY ONE

Introduction to Cable Manufacturing

- Overview of Cable Types: LV, MV, HV
- Raw Materials: Conductors, Insulation, Sheathing
- Cable Production Process: Extrusion, Stranding, Armoring
- Quality Control in Manufacturing
- Standards and Specifications (IEC, IEEE, Local Codes)

Learning Outcomes:

- Understand the cable manufacturing process end-to end
- Identify raw materials and their roles
- Apply quality control principles during production

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Cable Manufacturing Process & Troubleshooting

Course Outline

✓ DAY TWO

Advanced Production Techniques & Troubleshooting

• Extrusion and Stranding Challenges

• Armoring and Jacketing Techniques

• Common Manufacturing Defects and Causes

• Troubleshooting Methods: Identifying and Correcting Defects • Case Studies from Real Production Lines

Learning Outcomes:

• Recognize common manufacturing problems

• Apply troubleshooting techniques to improve cable quality

• Optimize production efficiency while maintaining standards

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Cable Manufacturing Process & Troubleshooting

Course Outline

✓ DAY THREE

Testing, Maintenance, and Practical Workshop

- Electrical and Mechanical Testing of Cables
- Preventive Maintenance of Production Equipment
- Repair and Rework Strategies for Defective Cables
- Practical Workshop: Detecting Defects and Testing Samples
- Safety Procedures in Manufacturing Environment
- Open Discussion and Q&A

Learning Outcomes:

- Perform quality testing and evaluation of manufactured cables
- Implement maintenance and troubleshooting strategies
- Solve practical manufacturing issues in real scenarios

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 9, 2027	Aug. 11, 2027	3 days	3250.00 $	UAE , Dubai
Sept. 19, 2027	Sept. 21, 2027	3 days	3250.00 $	KSA , Riyadh
Dec. 1, 2026	Dec. 3, 2026	3 days	3950.00 $	England , London
June 21, 2027	June 23, 2027	3 days	1550.00 $	Virtual , Online

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