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**Course Name**

# Cable Manufacturing Process & Troubleshooting

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**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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## Cable Manufacturing Process & Troubleshooting

### 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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## Cable Manufacturing Process & Troubleshooting

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 16, 2026	June 18, 2026	3 days	2150.00 \$	Virtual , Online
Aug. 4, 2026	Aug. 6, 2026	3 days	4250.00 \$	UAE , Dubai
Sept. 15, 2026	Sept. 17, 2026	3 days	4250.00 \$	KSA , Riyadh
Dec. 1, 2026	Dec. 3, 2026	3 days	4950.00 \$	England , London

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