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## Medium Voltage Cable Splicing Training

Contact us Today for a FREE quotation to deliver this course at your company's location.

<https://www.electricityforum.com/onsite-training-rfq>

There are two things you should remember when it comes to cable splicing and terminating:  
1. Proper splices and terminations are an integral part of any cable system, and 2. Cable splices and terminations become more susceptible to failure at higher voltages.

Therefore, whether splicing or terminating is accomplished by the use of hand-applied tapes, a filled or molded device, heat-shrinkable tubing, or a prefabricated device, care should be exercised during the application. Poor workmanship or improper choice of materials could jeopardize the reliability of the entire system.

### PROGRAM HIGHLIGHTS

- Introduction To Cable Splicing and Terminating
- Technologies and Standards
- Medium-Voltage Splicing and Termination
- Types of High-Voltage Cables
- High-Voltage Cable Components

- Cable Installation and Handling
- Cable Preparation
- Cable-Splicing Demonstration
- Cable-Testing Methods

## **LEARNING OBJECTIVES**

- Understand medium-voltage cable types, components and design
- Learn the proper and safe use of splicing tools
- Proper cable preparation, installation and handling techniques
- Testing, splicing and termination procedures
- How to perform splicing and terminating using tape, shrink and molded technologies

## **WHO SHOULD ATTEND**

This course is designed for electrical engineers, operations managers, plant electricians and electrical contractors, utility linemen, and cable splicers that are responsible for the installation, maintenance, splicing and terminating of medium-voltage cable systems.

## **STUDENTS RECEIVE**

- FREE 100-Page Digital Wire and Cable Handbook (Value \$20)
- \$100 Coupon Toward Any Future Electricity Forum Event (Restrictions Apply)
- 1.4 Continuing Education Unit (CEU) Credits
- FREE Magazine Subscription (Value \$25.00)
- Course Materials In Paper Format

## **COURSE OUTLINE**

### **DAY ONE**

#### **Part One: Introduction To Cable Splicing and Terminating Technologies and Standards**

- Splicing Technology
- Modular
- Molded
- Tape Systems
- Shrink Technologies
- Other
- Terminations
- Modular
- Molded
- Tape Systems
- Shrink Technologies

#### **Part Two: Medium Voltage Splicing and Termination**

- Material Technology
- Human Factors in Splicing

#### **Part Three: Types of High Voltage Cables**

- Tape Shielded
- Drain Wire Shielded
- BICC UniShield
- Concentric Neutral (CN)
- Jacketed Concentric Neutral (JCN)

- Type of Configurations

#### **Part Four: High Voltage Cable Components**

- Conductor
- Concentric Stranding
- Compressed Stranding
- Compact Stranding
- Strand Shielding
- Insulation
- Insulation Shield System
- Metallic Shielding
- Jacket
- How Solid Dielectric Cables are Made

#### **DAY TWO**

#### **Part Five: Cable Installation and Handling**

- Safety
- Environmental Protection
- Light, Power and Ventilation
- Housekeeping
- Cable Handling
- Direct Bury
- Duct and Tray Installation
- Causes of Cable Failures

#### **Part Six: Cable Preparation**

- Safety
- Hand Tools
- Abrasives and Solvents
- Supplies and Materials
- Cable Preparation Procedures
- Cable Prep Lab

### **Part Seven: Cable Splicing Demonstration**

- Molded Splice
- Taped Splice
- Heat Shrink Splice
- Cold Shrink Termination
- Elbow Termination

### **Part Eight: Cable Testing Methods**

- Insulation Resistance
- DC Hipot
- Very Low Frequency Testing
- Partial Discharge Testing
- Power Factor Testing
- Cable Testing Lab

**Review of expectations**  
**Questions and Answers**

**COURSE TIMETABLE**

**Both days:**

Start: 8:00 a.m.

Coffee Break: 10:00 a.m.

Lunch: 12:00 noon

Restart: 1:15 p.m.

Finish: 4:30 p.m.

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