

# Electrical Safety for Electrical and Non-Electrical Personnel

## Course Overview

This course provides a basic understanding of electrical systems and the associated electrical skills. By adopting safe electrical knowledge Candidates could aid a craft team and carry out defined tasks safely.

## Intended Audience

This Course is well suited for those who are required to understand electrical systems and terminology for their position and for mechanical maintenance personnel who will benefit from electrical cross-training.

At the end of the course the delegate will:

- Understand the dangers of electricity
- Make isolations & restorations to a competency required for the tasks to be undertaken
- Have an understanding of basic electrical theory
- Be able to identify a hazardous area
- Be able to install Lighting, small Power and Motor Control Circuits
- Use correct test equipment

## Duration

4 days

## Topics

- Electrical Fundamentals
- Electrical Safety – OSHA, NFPA 70E®
- Electrical testing equipment
- Electrical isolations, Proving isolations
- Electrical Installations
- Circuit Protection
- Motor Control Circuits with Installation
- Lighting & Small Power Circuits with Installation
- Hazardous Areas
- Testing and Inspection
- Trouble shooting

## Methods

Students will learn through lectures, demonstrations, hands-on learning, practical exercises and discussions. They will be evaluated via attendance, self-assessment, continuous assessment, a theory exam, and a practical test

## Certification

- OCS Certificate upon successful completion



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15330 Park Row, Houston, TX 77084 Phone: 281.579.1066 Fax: 281.579.0084  
[www.ocsgroup.com](http://www.ocsgroup.com) \* [training@ocsgroup.com](mailto:training@ocsgroup.com)