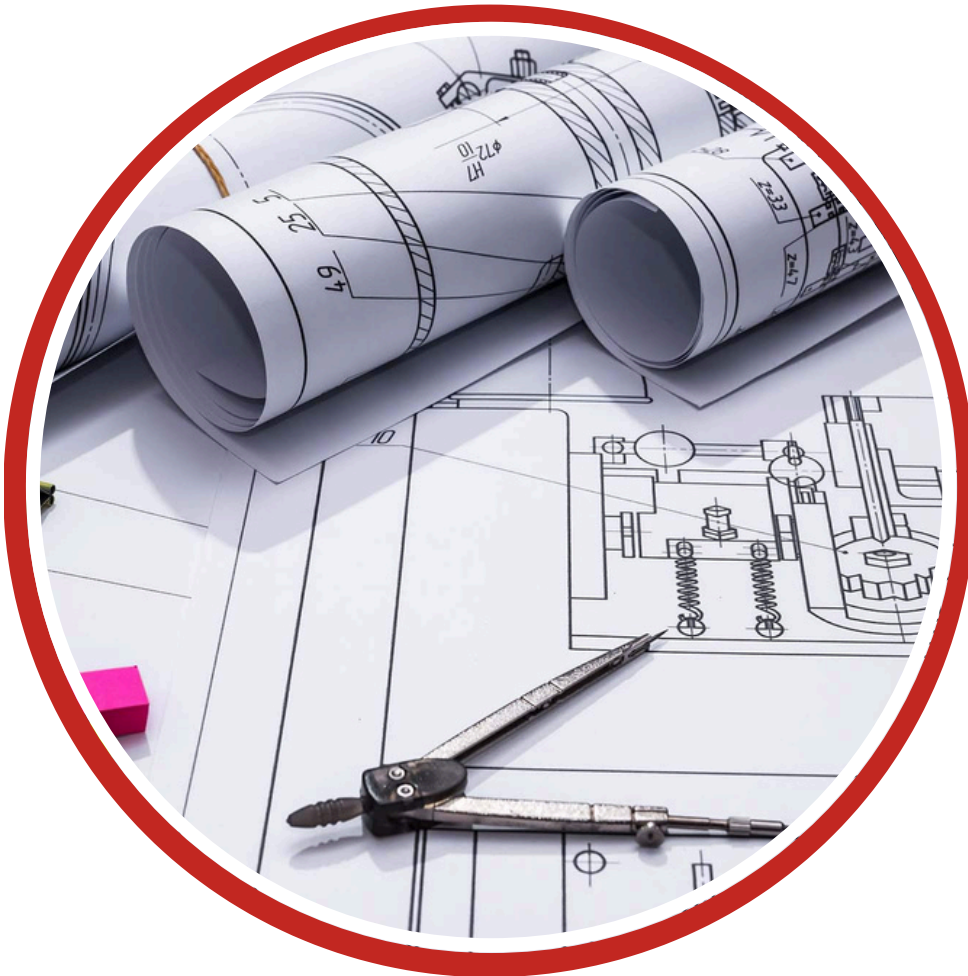


# Reading of Electrical and Schematic Drawing

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## Energy Milestones Corporation Advancing Professionals to the next level

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# Reading of Electrical and Schematic Drawing



## Overview

This course is designed to prepare electrical personnel to troubleshoot from electrical drawings at commercial, industrial and institutional installations. A degree in electrical engineering is recommended to gain maximum benefit from the course. Participants are encouraged to bring examples of their own facility prints to use during practical exercises.

## Course Objectives

- To improve the skills of engineers involved in the design, operation and maintenance of electrical systems.
- To know the Principles of reading and interpreting electrical schematics
- Interpret different types of electrical and schematic drawings, including single-line, ladder, and wiring diagrams.
- Identify and explain common electrical symbols and their real-world counterparts in equipment.
- Apply schematic reading skills to troubleshoot electrical faults and understand system operation.
- Distinguish between series and parallel circuits and analyse current and voltage flow accordingly.
- Utilise legends, tables, and standard references to accurately decode complex electrical drawings.

## Course Content

- History of technical drawing
- Aim of use
- Types of technical drawings
- Anatomy of technical drawing
- Mechanical technical drawing
- Electrical drawing symbols
- Standard for electrical device numbers



# Reading of Electrical and Schematic Drawing



## Course Content

- Types of electrical drawings
- How to read electrical drawings
- Practical examples

## Targeted Audience

Engineers and technicians are involved in the design, operation and maintenance of power substations. A degree in electrical engineering is recommended to gain maximum benefit.

## Course Methodology

Facilitated by an experienced professional trainer, this training course will be conducted as a highly interactive workshop session. A variety of training methodologies and facilitation techniques will be used before and during the course whenever applicable. These methods are aimed at enhancing individual and group interaction while maximizing learning. Some of these methods are:

- Online Pre-post Test
- Colorful Visual Aids
- Gamification
- Self-Assessment Instruments
- Simulations
- Case Studies
- Videos
- Group Exercises & Discussions
- Role plays
- Indoor & Outdoor games

