

Electrical Print Reading: Blueprints & Schematics



The course covers the various types and purposes of electrical prints, and teaches the skills needed to interpret them properly.

Review photos of electrical devices and equipment and their ANSI symbols and ratings. Examine diagrams and schedules in a typical construction project. Then review prints for errors and National Electrical Code® (NEC) compliance in voltage drop, conductor sizing, conductor fill, short-circuit analysis, kVA ratings, service calculations and more.

Learn to design and sketch simple electrical systems and circuits.

This course is designed for anyone involved in the design, construction or maintenance of electrical systems.

WHAT THIS COURSE COVERS

- Introduction to Reading and Interpreting Prints
- Architectural Electrical Drawings & Construction Blueprints
- Single-Line Type Diagrams
- Basic Electrical Drawings
- Common Components
- Troubleshooting

WHO SHOULD TAKE THIS

- Mechanics
- HVAC Technicians
- Apprentices
- Alarm Technicians
- Electricians
- Facility Managers
- Non-Electrical Engineers
- Plant and Building Engineers
- Stationary Engineers
- Plant and Facility Managers
- Multi-craft/Cross Training Personnel

COURSE OUTCOMES

- Read and Interpret Electrical Blueprints, Architectural Electrical Drawings, and Construction Blueprints
- Understand Common Components of Electrical Systems
- Review Prints for Errors and National Electric Code Compliance
- Conduct Basic Troubleshooting of Electrical Systems

COURSE AGENDA

- Introduction to Reading and Interpreting Prints
- Architectural Drawings Construction Blueprints
- Single Line Type Diagrams
- Common Components
- Troubleshooting



Lecture



Hands-on



ONSITE: 2 days (16 hours)



LIVE ONLINE: 2 days (16 hours)



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SCL Course Overview and Agenda v02242025.docx