

# ELECTRICAL PRINT READING FROM CONSTRUCTION TO CONTROL

## CLASS FORMAT:

Classroom

## STANDARD CLASS SIZE:

NTT recommends a class of no more than 35 participants to obtain the best results.

## NTT PROVIDES:

- 2 day (16 contact hours) of on-site instruction
- Textbook "Electrical Print Reading from Construction to Control"
- NTT Electrical Controls & Ladder Drawing Symbols poster
- Classroom consumables
- Completion certificates
- Shipping and instructor travel logistics

## CLIENT PROVIDES:

- Classroom of 500 square feet or greater
- Projection screen, white board and/or flip chart(s)

## CLIENT OPTION:

Client has the option of providing NTT with any electrical prints specific to their facility and/or equipment they wish to have reviewed during the course. Prints should be received by NTT at least three (3) weeks prior to the seminar start date. Client should also produce copies of these prints for each of their participants.

*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.

## COURSE AGENDA

### INTRODUCTION TO READING AND INTERPRETING PRINTS

- Different electrical prints
- Drawing layout

### ARCHITECTURAL ELECTRICAL DRAWINGS CONSTRUCTION BLUEPRINTS

- Electrical devices and corresponding ANSI recommended symbols
- Plan views
- Floor plans
- Elevations
- Sections
- Pictorial views
- Detail drawings
- Schedules

### SINGLE-LINE TYPE DIAGRAMS

- Block diagrams
- Power risers
- Wiring diagrams
- Device function numbers
- One-line power distribution diagram
- IEEE and IEC symbols for devices found on schematic diagrams
- Electrical schematic diagrams

