

# ***Industrial Safety Specialist Certificate Program (ISS)***

It is important to learn electrical safety because a much higher percentage of accidents per 1000 workers occur in electrical fields than in other construction and maintenance fields. Accidents involving electricity are significantly more serious and have a greater percentage of fatalities than any other type of accident.

Organizations have traditionally relied on on-the-job safety training for their workers. This means that the training is only as good as the experience and presentation skills of the person providing the training. Statistics have shown that relying on this training does not produce a sufficiently safe working environment as required by OSHA; thus a more formal approach to training is necessary.

TTi has developed an Industrial Safety Specialist Certificate Program (ISS), consisting of approximately 140 hours of classroom training, which covers most topics encountered in this specialized field.

These TTI courses, presented by experienced, hands-on instructors, will provide the necessary techniques and skills to recognize hazards and guide workers to use electrically safe work practices. The courses will teach workers the reasoning used to develop these work practices so that the same kind of reasoning can be applied to any job. They will provide some tools to allow workers to develop their own safe work practices.

## ***Industrial Safety Specialist Certificate Program—Required Courses***

### **Electrical Safety Hazards in the Workplace, Course 620**

#### **620-1, 5 days**

- 621 Introduction to Electrical Safety Program
- 622 Electrical and Non-Electrical Hazards
- 624 Understanding and Developing Electrical Safety Procedures
- 631 Safety Lockout and Tagout Procedures

#### **620-2, 5 days**

- 623 Highlights of the National Electrical Code [NEC (NFPA-70)]
- 626 NFPA 70E Electrical Safety Requirements
- 627 Arc Flash Hazard Analysis

#### **620-3, 5 days**

- 628 Electrical Safety for Utilities
- 629 Electrical, Mechanical, Pressure, Steam and Liquid Flow Safety Procedures
- 630 Electrical and Operational Safety for Equipment Operators

#### **625, 3 days**

- 625 National Electrical Code [NEC (NFPA-70)]

### **Electrical Fundamentals and Grounding and Shielding, 4 days**

- 103-2 Electrical Fundamentals
- 161-2 Grounding and Shielding

### **Electrical Emission/Interference Fundamentals and Instrumentation, 4 days**

- 162-2 Test Techniques for EMI/EMC/ESD
- 164-2 Electrical Instrumentation