



INDUSTRIAL MAINTENANCE

Offering training and assistance in automation, maintenance, information technology, and machining

INDUSTRIAL ELECTRICAL FUNDAMENTALS

Maximum Class Size: 12 Length: 32 Hours

This course provides an overview of electrical principles, beginning with electron theory and progressing through single-phase and three-phase electrical systems. It is designed to build from foundational concepts to industrial applications with hands-on lab experience.

Students will develop a strong understanding of DC and AC electrical concepts, including current, voltage, resistance, power, and circuit analysis. Instruction covers series, parallel, and combination circuits, switches, relays, transformers, motor theory, and operation. Emphasis is placed on electrical systems commonly found in manufacturing and industrial settings, with a focus on three-phase power.

Lab exercises reinforce classroom instruction and include building and analyzing circuits, performing current, voltage, and resistance measurements, using a multimeter and amp clamp, and applying electrical principles to practical industrial scenarios.

By the end of the course, students will have the foundational knowledge and practical skills necessary to understand, troubleshoot, and work safely with industrial electrical systems.

WHY CHOOSE ATN

High Return on Investment

- \$253.31 Client Reported

Client Satisfaction

- Focus on Client Success

Trusted Local Partner

- Communities in Alabama

Staff Experience

- 1,200+ Combined Years in MFG

Deep Resource Pool

- Colleges, Universities, MEP's

Customized Service

- To Fit the Needs of Clients

On-Site Delivery

- In-plant; Local Venue; Portable

Flexible Scheduling

- Based on Clients Needs

Accountability

- ISO 9001 Certified, Client Surveys