

SER501

General Training Electrical - Part I

Learn the Basics of Electrical Components & Systems

Course Content

This is Part I of a three part training program that will help you understand and service the basic electrical and electronic control systems of the heating and air conditioning industry. The seminars will cover a broad range of components and begins with the basics of electricity. The fundamentals discussed include: introduction to electricity, electrical components and their symbols, wiring diagrams, wiring diagram exercises, electric meters and their uses, alternating current fundamentals, motor fundamentals and motor protection, electronic devices and circuits, electrical troubleshooting. Literally thousands of HVAC technicians have completed these programs since the 1960s. Developed by Carrier Corporation the General Training Electricity series has served as the foundation program for the industry.

Who Should Attend

Anyone who wishes a fundamental understanding of electricity and electrical components especially **installation and service technicians**

Learning Outcomes

- Be able to successfully complete skills check lists
- Be able to recognize electrical components and explain their function

What You Will Learn in Part I

- Electrical terms and concepts
- Electric meters and their uses
- The principles of electricity (alternating current fundamentals)
- Series and parallel circuits
- Magnetism and components
- Fundamentals of circuits and ladder diagrams
- Contacts in control circuits
- Diagram symbolism
- Reading diagrams (both heating and cooling)
- Troubleshooting safety

What You Will Get

- The first three books in the GTE series
- Sandwiches served

Program Duration - 3 hours

SER502

General Training Electrical - Part II

Learn the Basics of Electrical Components & Systems

Course Content

This is Part II of a three part training program that will help you understand and service the basic electrical and electronic control systems of the heating and air conditioning industry. The seminars will cover a broad range of components and begins with the basics of electricity. The fundamentals discussed include: introduction to electricity, electrical components and their symbols, wiring diagrams, wiring diagram exercises, electric meters and their uses, alternating current fundamentals, motor fundamentals and motor protection, electronic devices and circuits, electrical troubleshooting. Literally thousands of HVAC technicians have completed these programs since the 1960s. Developed by Carrier Corporation, the General Training Electricity series has served as the foundation program for the industry.

Who Should Attend

Anyone who wishes a fundamental understanding of electricity and electrical components especially **installation and service technicians**

Learning Outcomes

- Be able to successfully complete skills check lists
- Be able to use meters and explain their function
- Be able to explain various motors and how they operate

What You Will Learn in Part II

- Electrical meters and their uses
- Ammeters
- Voltmeters
- Ohmmeters
- Using electric meters
- Proper and improper application of meters
- AC Power generation
- AC Circuit characteristics
- Using AC power to do work
- AC Power distribution

What You Will Get

- The second three books in the GTE series
- Sandwiches served

Program Duration - 3 hours