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TRAINING

Electrical Schematic Reading for HVAC

Date: Wednesday, October 13, 2010

Time: 8-4:30 PM

Instructor: Elmer Franklin

Cost: \$300.00 per student (organizations that send 3 or more may register at \$275 per student)

Description: This course promotes the concept of troubleshooting and repair of systems using schematics and wiring diagrams. Attendees will participate in the recognition of components and circuits including diodes, capacitors, transformers, relays and more. The latest in ANSI diagrams will be discussed, including ladders, logic, keys and legends. Circuit board technology in troubleshooting the system will also be reviewed. The course has 3 lab exercises covering using a schematic to identify faulty components, converting a line diagram to a schematic and making a schematic by tracing the system wires.

Course Objectives:

- Briefly review basic electric circuit terms, components and operation, including the switch arrangements, transformers, circuit breaker panels, relays, motor starters and thermostats.
- Describe the pictorial, line and schematic diagrams and identify their usefulness.
- Identify common symbols, describe the use of a legend and sequence-of-operation, and describe the operating sequence using a schematic wiring diagram.
- Learn basic troubleshooting procedures to successfully isolate circuit problems using a refrigeration schematic wiring diagram.
- Understand how to use a schematic to name various components on a circuit board.
- Draw a line diagram for a piece of equipment and draw a schematic diagram from a line diagram.
- Describe and check the operation of a Honeywell W973 electronic control system.
- Describe the proper procedure for checking solid-state diodes, SCRs and triacs.
- Use the road mapping process and other means to simplify a schematic.
- Interpret drawings for a large roof top unit with electronic circuit boards and the ability to be accessed by a DDC system.

Please fill out this form and fax it to
Amanda Elliott at 757-558-9715 by
Thursday October 7, 2010

Registration Information

Name: _____

Company: _____

Address: _____

Phone: _____ FAX: _____ Email: _____

Please note - a valid FAX number and/or email is required for class notices regarding cancellations and/or reminders

Names of other attendees from your organization: _____

Billing Information

Purchase Order #: _____

Credit Card Information

Type: _____ Credit Card Number: _____

Expiration: _____ Name on Card: _____

We will pay by check: _____