MITSUBISHI ELECTRIC
TRANE HVAC US LLC

M- and P-SERIES

ADVANCED SERVICE

Course Description

This course provides participants with an in-depth explanation of system components along with a breakdown of where they fit within the electrical and refrigerant circuits. Check points and common faults are identified along with their probable causes and effects. Emphasis is placed on operational sequence theory and system performance in each operational mode. Additionally, participants are presented with the System Diagnosis Procedure used to troubleshoot and isolate faults in the equipment. Using the steps outlined in the procedure, participants perform both facilitated group-based and individual hands-on exercises to repair faulty equipment.

Prerequisite

M- and P-Series Service Essentials

Target Audience

Experienced Service Technicians

Course Duration

2-Days

Educational Credits

IACET: 1.4 CEUs NATE: 14 hours

Course Tuition

$640 per seat

Classroom Requirements

Laptop computer

Objectives

- Discuss the tools required to perform advanced service on M- and P-Series equipment
- Trace electrical circuit paths to identify checkpoints and the proper incoming and outgoing voltages and signals
- Review the flow of refrigerant in various modes of operation and discuss system functionality
- Describe the functional and technical attributes along with the faults and checkpoints for all primary system components
- Identify and explain how to modify system performance using jumpers, connectors, and DIP Switches
- Analyze the sequence of operation
- Use the System Diagnosis Procedure to perform hands-on troubleshooting and repair faulty equipment

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