



## AVAILABLE SMART MEMBER CLASSES

On the following pages you will find a list of some of the ITI in-person classes that are currently being made available to any SMART Journeyperson or Apprentice that is in good standing with their local union. We encourage you to share this information with anyone that may benefit from attending one of these classes and encourage them to sign up as soon as possible to secure their spot in the class.

For these classes, the ITI will pay for lodging, travel and per diem as described on the ITI's Travel Expense and Reimbursement Policy which is located in the course catalog section of the website ([ITI | Course Catalog](#)). All class material will be provided as well as lunch and transportation between the hotel and the training site. The ITI will **not** reimburse any incidental expenses or lost wages.

To register for any of these classes, they must visit the International Training Institute's course catalog on the website located at [www.sheetmetal-iti.org/course-catalog](http://www.sheetmetal-iti.org/course-catalog). Once in the catalog the SMART member can click on the desired course from the catalog to get more information and to sign up for the class. (Note: the member must have an account on the site and be logged in to sign up for a class)

For questions about training please contact Joe Potesta, assistant to the administrator at [jpotesta@sheetmetal-iti.org](mailto:jpotesta@sheetmetal-iti.org).

# **HVACR Service and Testing, Adjusting and Balancing (TAB):**

## **Direct Digital Controls**

Designed for Sheet Metal Workers, this class introduces Automated Controls Systems with extensive troubleshooting and hands-on work.

This class covers:

- System components and architecture
- Input and output flow
- Programming tools
- HVAC system types and operation sequences
- Building automated logic (block diagrams)

### **Location:**

Local 85 Training Center, Atlanta, Georgia

### **Date:**

September 22 – September 26

## **HVACR Service:**

### **Introduction to Heat Pumps**

Intended for those new to residential and light commercial heat pumps, this course uses Interplay Learning content, virtual reality, and hands-on lab work with live equipment. All required materials are provided.

This class covers:

- Heat pump components
- Refrigeration cycle and theory
- Electrical systems
- System controls and sequences
- Refrigerants and charging methods
- Installation considerations
- Efficiency adjustments
- Dual fuel systems
- Thermostats
- Cold climate considerations
- Scheduled maintenance
- Smart diagnostic tools
- Energy-efficient design

### **Location:**

Local 88 Training Center, Las Vegas, Nevada

### **Date:**

September 29 – October 3

## **HVACR Service:**

### **Mini-Splits-VRF**

This is for those with little or no experience in Mini-Split or VRV/VRF systems. The curriculum blends Interplay Learning content, virtual reality simulations, custom materials, and hands-on training with live equipment in a safe lab environment. All necessary courseware, tools, personal protective equipment, and instruments are provided.

This class covers:

- Mini-split and VRF system components
- Refrigeration cycle and theory
- Electrical components
- Inverter technology in VRV/VRF systems
- System controls and operating sequences
- Refrigerants and charging techniques
- Adjustments for optimal efficiency
- Thermostats and control devices
- Scheduled maintenance procedures
- Use of smart diagnostic tools for troubleshooting
- Energy efficiency and multi-zone system design

#### **Location:**

Local 85 Training Center, Atlanta, Georgia

#### **Date:**

October 13 – October 16

## **HVACR Service:**

### **Advanced Service Technician**

This intensive, 40-hour program is for Sheet Metal Workers seeking advanced HVAC Service Technician skills. Prerequisite: basic service technician knowledge.

This class covers:

- Rooftop control (cooling/heating)
- Economizer operation
- Advanced refrigerant technology (retrofit)
- Chiller control and sequence
- Semi-compressor technology (rebuilding and troubleshooting)

All modules include hands-on troubleshooting with operational equipment.

### **Location:**

Local 85 Training Center, Atlanta, Georgia

### **Date:**

October 20 – October 24

## **HVACR Service and Testing, Adjusting and Balancing (TAB):**

### **Ventilation Verification Indoor Air Quality (VVIAQ)**

Designed to provide a thorough review of indoor air quality and ventilation verification, following the ITI curriculum. This is intended for Sheet Metal Workers new to indoor air quality or testing, adjusting, and balancing, it features instructor-led, hands-on lab sessions.

This class covers:

- Familiarize participants with ITI and other key resources
- Engage in practical lab exercises for VVIAQ

#### **Location:**

Local 85 Training Center, Atlanta, Georgia

#### **Date:**

October 20 – October 24

#### **Location:**

Local 88 Training Center, Las Vegas, Nevada

#### **Date:**

November 17 – November 21

## **Architectural Sheet Metal:**

### **Arch-Wall Cladding-MCM Systems**

Designed to showcase core principles for fabricating and installing Metal Composite Material (MCM) wall panels. Sessions combine classroom instruction and hands-on shop work.

Participants will learn to fabricate and install two types of MCM systems: Face-Sealed Barrier Type and Drained Back-Ventilated. Training includes routing, folding, riveting, applying silicone, and attaching ACM panel extrusions. Learners will also practice installing these systems.

The class covers:

- Basic knowledge of MCM wall panel types
- Reading construction drawings and documents
- Job safety and fall protection
- Planning, field verification, measuring, and layout
- Support substrates and material handling
- Sketching, fabricating flashings and trims

At the end, students take a 94-question multiple-choice exam. An 80% passing score is required for ITI Certification in Architectural Building Enclosure.

#### **Location:**

Local 36 Training Center, St. Louis, Missouri

#### **Date:**

September 15 – September 19