

BUILDING the **FUTURE** **TOGETHER**



Please wear you mask
during all session

The background features a technical drawing or isometric grid pattern in shades of blue and purple, transitioning into a solid red area on the right. A white banner with a slight shadow is positioned diagonally across the center, containing the main text.

**JATC BEST PRACTICES FOR
MEETING TRAINING NEEDS OF THE
FUTURE**

ITI RESOURCES

TWO MAIN AREAS

- JATC SUPPORT
 - Accreditation Program
 - TotalTrack
 - Recruitment Resources
 - Grant and Loan Programs
 - Discounted Software and Equipment
 - Curriculum
- TRAINING AND CERTIFICATION
 - Coordinator, Instructor, and Member Training
 - Welding Inspector Training
 - Strike Force/Hot Shot Training

The background features a complex isometric technical drawing of various mechanical parts, including bolts, nuts, and shafts, rendered in a light blue color. This pattern is overlaid on a smooth gradient that transitions from a deep blue on the left to a vibrant red on the right. The text 'JATC SUPPORT' is centered in the middle of the image.

JATC SUPPORT

ITI RESOURCES

JATC SUPPORT

- ACCREDITATION PROGRAM
 - Process assesses JATC against industry best practices/standards and legal requirements to assure that a JATC has the tools in place to be successful.
- TOTALTRACK
 - Online system for tracking and managing training and certifications from the application process to retirement.
- RECRUITMENT RESOURCES
 - Videos
 - Brochures and Displays

ITI RESOURCES

JATC SUPPORT

- **DISCOUNTED SOFTWARE**
 - Autodesk Products (MTP Program) - For \$1500 annually, JATCs received 25 seats of all Autodesk products
 - ProCore - Free
 - DADO - Free
 - Bluebeam - Free
 - Stratus - Free
 - Evolve Software - Free
 - HangerWorks - Free
 - MetalLab/PractiCAD and PractiCAM - Free
 - Softlink - Discounted
 - Trimble/SysQue - Free
 - Edge Estimating (Architectural) - Free

ITI RESOURCES

GRANTS AND LOANS

- GRANTS

- Standard Grant (50% - \$20K Max)
- Plasma Table (75% - \$22.5k Max)
- 3D Scanner (75% - \$16.5K Max)
- 3D Printer (75% - \$1k Max)
- Hololens (100%)
- MTP Reimbursement (50%)
- Laser Welder (90% - \$27K Max)
- Spyder Crane Rental for Training (Reimburse up to \$1500)

ITI RESOURCES

GRANTS AND LOANS

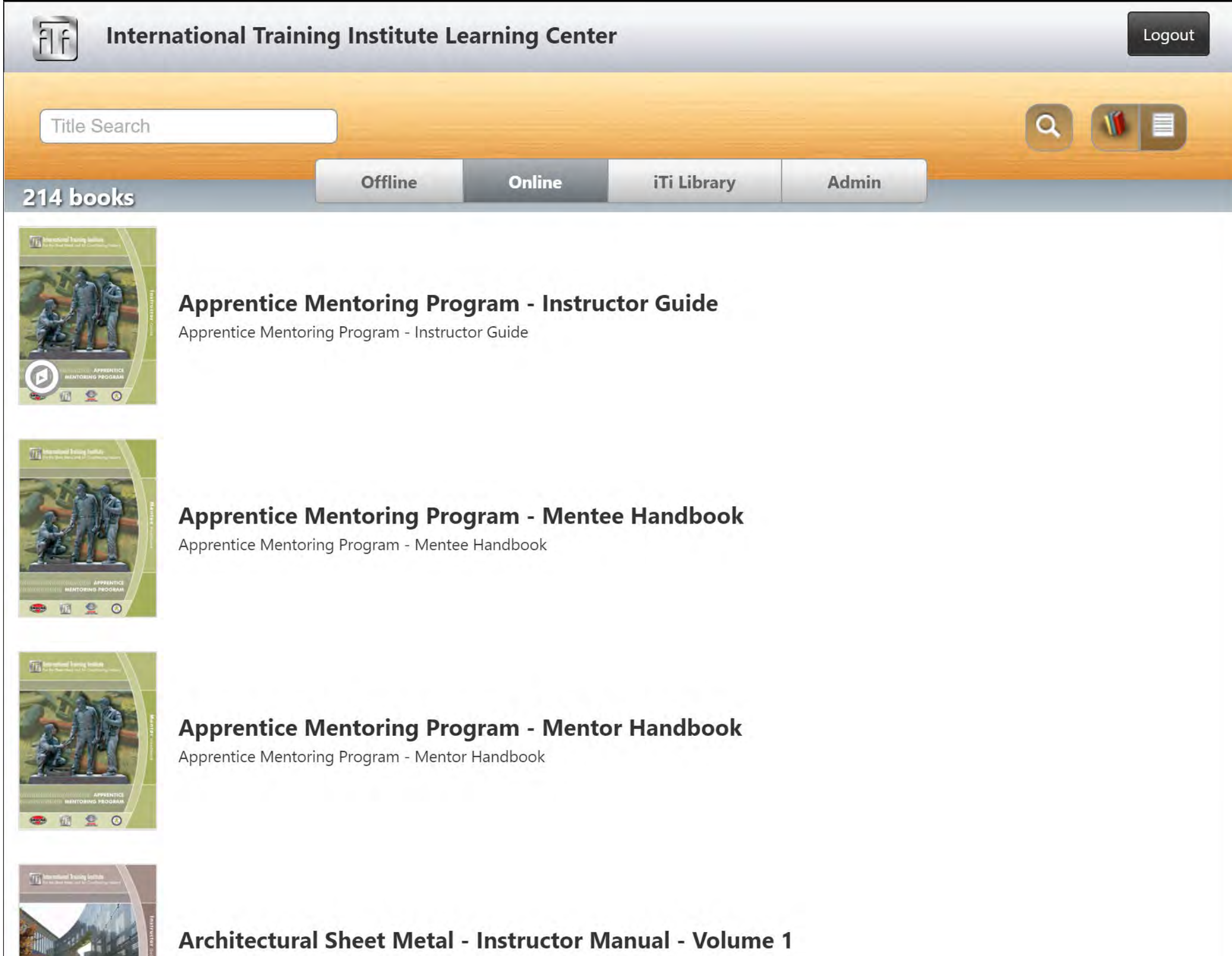
- LOAN PROGRAM

- No interest loan program
- Maximum \$200,000
- Loan term: 3-5 years depending on amount borrowed
- Loans are made to the JATCs for equipment purchases used in training programs at JATC facilities
- Cannot be used for “Brick and Mortar”

ITI RESOURCES

CURRICULUM

- ELECTRONIC CURRICULUM (E-BOOKS)
 - ITI E-reader
 - ITI supplies IPADs to new 1st Year Apprentices
 - 214 books in the library currently
 - Embedded Videos
 - Instructor Resources
 - PowerPoints, Videos, Images, etc.



The screenshot displays the International Training Institute Learning Center website. The header includes the ITI logo, the text "International Training Institute Learning Center", and a "Logout" button. Below the header is a search bar labeled "Title Search" and navigation tabs for "Offline", "Online", "iTi Library", and "Admin". The main content area shows a list of 214 books. The first three books are part of the "Apprentice Mentoring Program":

- Apprentice Mentoring Program - Instructor Guide**
Apprentice Mentoring Program - Instructor Guide
- Apprentice Mentoring Program - Mentee Handbook**
Apprentice Mentoring Program - Mentee Handbook
- Apprentice Mentoring Program - Mentor Handbook**
Apprentice Mentoring Program - Mentor Handbook

The fourth book listed is:

- Architectural Sheet Metal - Instructor Manual - Volume 1**

ITI RESOURCES

CURRICULUM


ITI Reader - Foreperson Training x

read.sheetmetal-iti.org/BookViewer.aspx

110% View Annotate Shapes

Forepersons who enjoy their job are those workers who are looking for a sense of pride and accomplishment. They are the crew members who desire to step out from the rank and file, to distinguish themselves from others, and who want to take on greater responsibility.

The information and skills that you will learn in this course are organic—i.e., they will always be growing and developing. Each module in this training program requires different skill sets, all which offer opportunities for you to grow. Personal habits, time management, organizational skills, people skills, and business skills are all areas that require continued attention and growth. Regardless of your reasons for being in this course, take advantage of the opportunity you have. Remember that each student will walk away with something different from this course, and no matter what, you should learn and apply as much as you can from the knowledge you will gain as you continue your career in the sheet metal industry.


 [Introduction to Being a Foreperson \(04:53\)](#)

REVIEW QUESTIONS

1. What is the main goal of a foreperson?
2. Where does a foreperson fit into the organizational structure of a construction project?
3. What are some reasons why people choose to become a foreperson?

International Training Institute Learning Center Logout



Resources

 **P602-2 Foreperson Training - Instructor Guide**

[Return to Library](#)

Resources

Path: **Resource Root**

Name	Size
 Powerpoints	
 Videos	

3180 Fairview Park Drive, Suite 400, Falls Church, VA 22042 | 703-739-7200 | Terms Of Use | Copyright 2022

The background of the image is a technical drawing or isometric view of a mechanical system, possibly an HVAC unit or a complex piping system. It features a grid of lines and various components like pipes, valves, and structural elements, rendered in a light blue and white color scheme. The overall aesthetic is clean and professional, typical of a technical manual or educational material.

HVAC SERVICE ONLINE CURRICULUM

ONLINE PLATFORMS

CENGAGE / MINDTAP & INTERPLAY LEARNING

- The ITI has been using two online learning platforms to train members in HVAC/R service, maintenance, and repair.
- CENGAGE / MINDTAP
- INTERPLAY LEARNING

ONLINE PLATFORMS

CENGAGE / MINDTAP

- Cengage / Mindtap offers students and instructors access to the entire Refrigeration & Air Condition Technology manual online
- Reading assignments along with video lessons and animations, homework, and quizzes can all be assigned to students to do in-person or remotely.
- Simulations can be performed right from the student's device in 2
- Instructors can monitor a students progress and keep track of grades

ONLINE PLATFORMS

INTERPLAY LEARNING

- Interplay Learning has a huge catalog of available courses on topics such as Safety, HVAC Service, Electrical, Plumbing, and even Fire Life Safety
- Courses include Simulations that can be performed right from the student's device in 2D, or in 3D from a virtual reality headset, such as an Oculus Rift.
- Instructors can assign courses, career paths, learning paths, and custom content.
- Instructors can monitor progress and grades.

ONLINE PLATFORMS

CENGAGE / MINDTAP & INTERPLAY LEARNING

- Both platforms can be delivered as in-person or in-classroom instructor lead
- Both platforms can be delivered completely remote, for distance learning
- Both platforms can be delivered in a hybrid fashion, utilizing remote learning coupled with in-person and hands on.

FROM THE COURSE

CENGAGE | MINDTAP

Search this course

Da

IAQ/Ventilation Verification Supplemental

SHOW HIDDEN EDIT

Expand all ↓ [+ Add / Create](#) [Filters](#)

- How to Use the Simulations 4 activities
- S/P2 Soft Skills Bundle 6 activities
- ITI Instructor Resource Guide for IAQ Ventilation Verification
ITI Instructor Resource Guide for IAQ Ventilation Verification
- Section 1: Theory of Heat 46 activities
- Section 2: Safety, Tools and Equipment, and Shop Practices 44 activities
- Section 3: Basic Automatic Controls 55 activities
- Section 4: Electric Motors 69 activities
- Section 5: Air-Conditioning (Heating and Humidification) 91 activities
- Section 6: Air-Conditioning (Cooling) 68 activities

CLASS AVERAGE

0%

Recent Activity Scores

This chart shows the average scores for activities that recently reached their due date. Hover over an activity dot for more information.

This chart is blank because no activities have reached their due date.

Not graded

[Open Gradebook](#)

FROM THE COURSE

CENGAGE | MINDTAP

Search this course

IAQ/Ventilation Verification Supplemental

SHOW HIDDEN EDIT

Collapse all ↑ [+ Add / Create](#) [Filters](#)

- Section 4: Electric Motors (69 activities)
- Section 5: Air-Conditioning (Heating and Humidification) (91 activities)
 - Unit 30: Electric Heat
 - Unit 31: Gas Heat
 - Simulations: Wiring Diagrams
 - Simulations: Gas Furnace
 - Simulation: Gas Furnace - Circuit Breaker Tripped
 - 0% submitted, -- avg score, 100 points
 - COUNTS TOWARDS GRADE
 - Delmar Online Training Simulations: HVAC
 - Simulation: Gas Furnace - Dirty Air Filter
 - 0% submitted, -- avg score, 100 points
 - COUNTS TOWARDS GRADE
 - Delmar Online Training Simulations: HVAC
 - Simulation: Gas Furnace - No Fault
 - 0% submitted, -- avg score, 100 points
 - COUNTS TOWARDS GRADE

CLASS AVERAGE

0%

Recent Activity Scores

This chart shows the average scores for activities that recently reached their due date. Hover over an activity dot for more information.

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Not graded

[Open Gradebook](#)

FROM THE COURSE

CENGAGE | MINDTAP

IAQ/Ventilation Verification Supplemental

SHOW HIDDEN EDIT

Collapse all ↑ [+ Add / Create](#) [Filters](#)

Delmar Online Training Simulations: HVAC

Simulation: Gas Furnace - No Fault	0% submitted	-- avg score	100 points
● COUNTS TOWARDS GRADE			

Delmar Online Training Simulations: HVAC

Learning Objectives

Read the Learning Objectives

Unit Overview

Reading

Videos and Animations

Unit 31: Practice Test	0% submitted	-- avg score	10 points
PRACTICE			

Flashcards

Review Questions

Lab Exercises

Search this course

CLASS AVERAGE

0%

Recent Activity Scores

This chart shows the average scores for activities that recently reached their due date. Hover over an activity dot for more information.

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%

Not graded

[Open Gradebook](#)

READING ASSIGNMENT

CENGAGE | MINDTAP

Search this course

Reading

Gas Heat


Unit 31

[Chapter Introduction](#)

[31.1 Introduction to Gas-Fired, Forced-Hot-Air Furnaces](#)

[31.2 Types of Furnaces](#)

- [Upflow](#)
- ["Low-Boy"](#)
- [Downflow](#)
- [Horizontal](#)
- [Multipoise or Multipositional](#)



READING ASSIGNMENT


CENGAGE | MINDTAP

Search this course

Reading

31.1 Introduction to Gas-Fired, Forced-Hot-Air Furnaces

Gas-Fired Heating Systems



© Cengage Learning

The image shows a screenshot of a Cengage MindTap reading assignment. At the top, the Cengage logo and 'MINDTAP' are visible. A search bar and user profile icon are in the top right. Below the navigation bar, the page title '31.1 Introduction to Gas-Fired, Forced-Hot-Air Furnaces' is displayed. The main content area features a video player with a dark header that reads 'Gas-Fired Heating Systems'. The video frame shows a man in a blue long-sleeved shirt and safety glasses standing in a technical environment, likely a furnace room. A white play button is centered over the video. Navigation arrows are visible on the left and right sides of the video player. At the bottom of the video frame, the copyright notice '© Cengage Learning' is present.

READING ASSIGNMENT

31.10 Automatic Combination Gas Valve

Many modern furnaces designed for residential and light commercial installations use an automatic combination gas valve (ACGV), [Figure 31.25](#), also called the redundant gas valve. These valves incorporate a manual control, the gas supply for the pilot, the adjustment and safety shutoff features for the pilot, the pressure regulator, and the controls to operate the main gas valve. They often have dual shutoff seats for extra safety protection. These valves also combine the features described earlier relating to the control and safety shutoff of the gas. Modern combination gas valves also may include programmed safe lighting features, servo pressure regulation, choices of different valve operators, and installation aids.



Figure 31.25

An automatic combination gas valve.



READING ASSIGNMENT

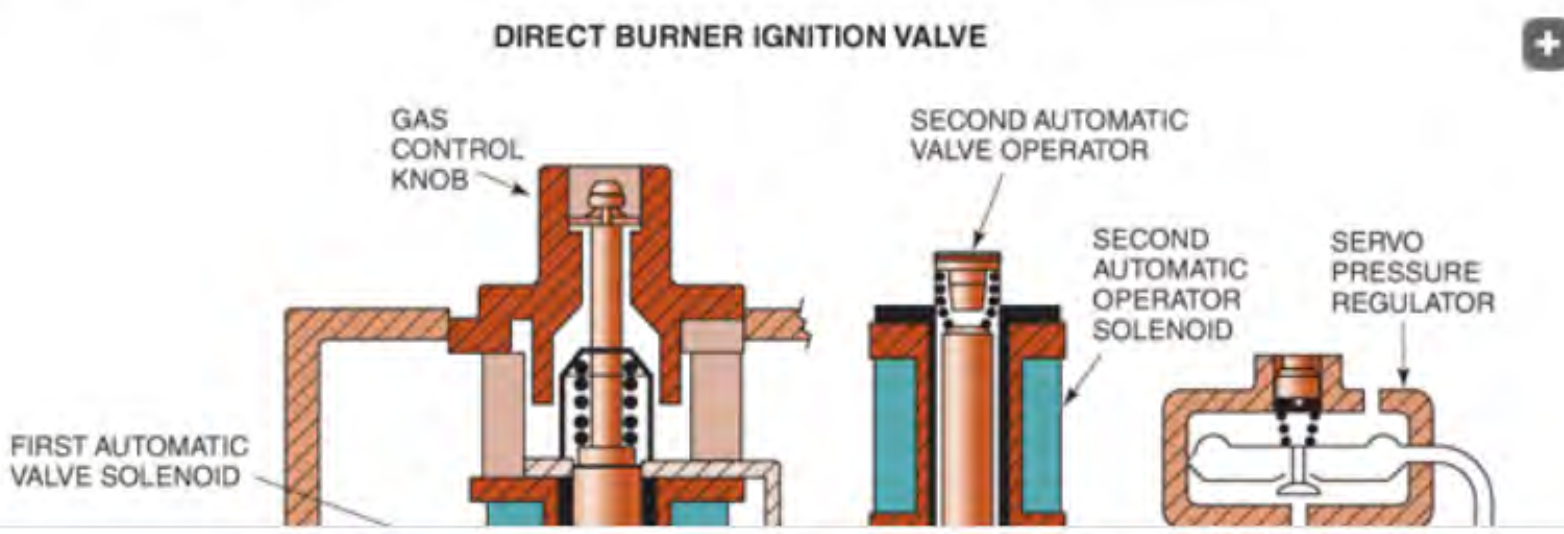
CENGAGE | MINDTAP

Reading

Direct Burner Automatic Gas Valves

In a direct burner automatic gas valve system, the electronic module or IFC lights the main burner directly without a pilot flame. A spark, a hot surface igniter, or a glow coil usually accomplishes ignition. These types of ignition will be covered in detail later in this unit. [Figure 31.31](#) shows the internals of a typical combination gas valve for a direct burner system. Notice that there is no power unit or reset button. There are two automatic valves, and one is servo operated. The servo-operated valve will operate the same way as described for both the standing pilot and intermittent pilot combination gas valves.

Figure 31.31
A direct burner combination gas valve with servo pressure regulation.



StudyHub

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Notes & Highlights
Mark-up Your Activities for Studying

Bookmarks
Access Previous Bookmarks

View Filters

2 Notes and Highlights

Unit 31: Gas Heat (2)

Direct Burner Automatic Gas Valves

In a direct burner automatic gas valve system, the electronic module or IFC lights the main burner directly without a pilot flame. A spark, a hot surface igniter, or a glow coil usually

2/10/2022

A NOTE HAS BEEN PLACED HERE

system.
Notice that there is no power unit or reset button. There are two automatic valves

<https://ng.cengage.com/mindapp-mtstudycenter/index.html>

FROM THE COURSES SCREEN

CENGAGE | MINDTAP
Search this course

IAQ/Ventilation Verification Supplemental
SHOW HIDDEN EDIT

Collapse all ↑
+ Add / Create
Filters ▼

- Unit 41: Troubleshooting
 - Simulations: Small Commercial AC
 - Simulations: Split Residential AC

Simulation: Split Residential AC - Circuit Breaker Tripped ● COUNTS TOWARDS GRADE Delmar Online Training Simulations: HVAC	0%	--	100	
submitted avg score points				
Simulation: Split Residential AC - Dirty Air Filter ● COUNTS TOWARDS GRADE Delmar Online Training Simulations: HVAC	0%	--	100	
submitted avg score points				
Simulation: Split Residential AC - Indoor Service Switch Off ● COUNTS TOWARDS GRADE Delmar Online Training Simulations: HVAC	0%	--	100	
submitted avg score points				
Simulation: Split Residential AC - No Fault ● COUNTS TOWARDS GRADE Delmar Online Training Simulations: HVAC	0%	--	100	
submitted avg score points				

CENGAGE | CNOW

Assignments

Go

Create Assignment
View Page: 1 2 3 4 5 6 7 8

#	Name	Type	Linked?	Actions
59	ch01_essay	Homework	No	Print Duplicate Edit Delete
115	ch01_FITB	Homework	No	Print Duplicate Edit Delete
11	ch01_MC	Homework	No	Print Duplicate Edit Delete
191	ch01_practice	Homework	No	Print Duplicate Edit Delete
60	ch02_essay	Homework	No	Print Duplicate Edit Delete
116	ch02_FITB	Homework	No	Print Duplicate Edit Delete
12	ch02_MC	Homework	No	Print Duplicate Edit Delete
192	ch02_practice	Homework	No	Print Duplicate Edit Delete

FROM THE INSTRUCTOR VIEW

CENGAGE | MINDTAP Search this course ?

Progress ✖

Home Analytics **Gradebook** Settings Roster ⚙

To Do
3 Assignments
Need Manual Grading

Recent Scores

Recent AVG: **100.0%**
Range: 100.0% to 100.0%

Last Assignment Due Not Started

Unit 1 Test Test Lisa's
Due 05/13/20, 11:59pm **8**/8

VIEWING: [Rolling View](#) Find an assignment... 🔍

UPCOMING ASSIGNMENTS

No assignments are upcoming

SUBMITTED ASSIGNMENTS

Simulation: Gas Furnace - Dirty Air Filter Last Submission date: 06/30/20, 8:00am	12.5% submitted	100.0% avg score
📅 Extend Due Date 🕒 Extend Time Limit ✎ Adjust Score		
Lab Exercise SFT-1: Safety in the Laboratory Last Submission date: 06/30/20, 7:57am M MANUALLY GRADED	12.5% submitted	40.0% avg score
📅 Extend Due Date 🕒 Extend Time Limit ✎ Adjust Score		

CENGAGE

FROM THE INSTRUCTOR VIEW

CENGAGE | MINDTAP

Search this course

Progress

Home Analytics **Gradebook** Settings Roster

CLASS AVERAGE: 83.9% Edit Scores Gradebook Actions

Display Settings Filter by Jump To: Enter Unit, Folder or Assignment

		Day One: Electri...	Lab Exercises	Ohm's and Wat...			
	Calculation by Points	Simulation: Safety Quiz	Lab Exercise SFT-1: Safety in the Laboratory	Ohm's Law Worksheet	Simulations: B...	Simulations: Se...	Review Questi...
<input type="checkbox"/> Name (Show Student ID) ↑	Overall Performance ↑↓	100	10	100	4 activities 400 points	3 activities 300 points	2 activities 20 points
<input type="text" value="Filter by Student Name"/>	<input type="text" value="View All"/>		M MANUALLY GRADED	M MANUALLY GRADED			
<input type="checkbox"/>	82.4% 89.0 of 108.0	89.0	--	PENDING GRADING	--	--	--
<input type="checkbox"/>	90.8% 198.0 of 218.0	90.0	8.0	PENDING GRADING	--	--	--
<input type="checkbox"/>	61.5% 128.0 of 208.0	88.0	--	PENDING GRADING	--	--	--
<input type="checkbox"/>	85.2% 92.0 of 108.0	92.0	--	PENDING GRADING	--	--	--
<input type="checkbox"/>	81.5% 88.0 of 108.0	88.0	--	PENDING GRADING	--	--	--
<input type="checkbox"/>	84.3% 91.0 of 108.0	91.0	--	PENDING GRADING	--	--	--
<input type="checkbox"/>	89.8% 97.0 of 108.0	97.0	--	PENDING GRADING	--	--	--

CENGAGE

CENGAGE 2D SIMULATION

The screenshot displays the Cengage 2D Simulation interface for a "Gas Furnace" challenge mode. The interface is divided into several sections:

- Top Bar:** "Gas Furnace" title, information icon, and close button.
- Left Panel:** "CHALLENGE MODE" header, a back arrow, a timer showing "01:17", five empty star icons, and menu items: "PROCEDURE GUIDE", "LIST OF REPAIRS", and "TOOLS".
- Right Panel:** A right arrow, "WIRING DIAGRAM", and "EQUIPMENT DIAGRAM" options.
- Central View:** A 3D rendered room with a furnace unit. A smartphone is overlaid in the center, displaying a "Service Dispatch" screen with the following text:
 - Customer name:** Mary Johnson
 - Address:** 33 Nutmeg Street, Rockville, MD
 - Customer concern:** No heat
 - Equipment type:** Gas fired furnace without A/C
 - Notes:** Customer is not at home but, has left the garage and house open to begin work.At the bottom of the phone screen, there is a red "X" icon and the text "Put Away Phone".
- Bottom Bar:** "Walk", "Broom", "Thermostat", "Furnace", and "Circuit Breaker" icons.
- Bottom Right:** "HVAC 4.0.20" version information.

INTERPLAY

FROM THE DASHBOARD

My Courses






CURRENTLY LEARNING

HVAC053: Ladder and Fall Safety



Next Activity:
Course completed!

RECENT COURSES

HVAC500: Chiller Systems	25%		
HVAC315: Electric Furnace Troubleshooting	23%		
FSD Inspection	37%		

My Assignments

 3 OVERDUE  0 IN PROGRESS  3 COMPLETED

- HVAC254: EPA Section 608 Prep Course: Type III
 Overdue · Due 6-19-20 · Course 0% 
- Command Center training
 Overdue · Due 8-21-20 · Custom Learning Path 0% 

[VIEW ALL](#) ▾

My Assessments

HVAC Welcome Assessment
100%
ASSESSED MAY 11, 2020
[See course recommendations and assessment history](#)

My Stats

[Weekly Leaderboard](#) 🏆

INTERPLAY

FROM THE DASHBOARD

International Training Institute
File Edit View Window Help

International Training Institute.
For the Sheet Metal and Air Conditioning Industry

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HVAC500: Chiller Systems 25%

HVAC315: Electric Furnace Troubleshooting 23%

FSD Inspection 37%

VIEW ALL

My Competency Paths

Jump Start: HVAC Fundamentals 1 31%

My Learning Paths

HVAC Electricity 0%

See course recommendations and assessment history

My Stats

25120 POINTS

0 THIS WEEK Goal: 600 EDIT GOAL

Weekly Leaderboard

Joshua Moore	445
Clifford Richards	255
Edward C. Root	230
Demo User	95
Darrell Garrison	0

My Certificates

Ladder and Fall Safety	November 3, 2021
Fire Damper Inspection	March 15, 2021
Heat Pump Troubleshooting (Residential)	February 19, 2021
Residential A/C Troubleshooting	February 18, 2021

VIEW ALL

INTERPLAY

FROM THE CATALOG

File Edit View Window Help



Dashboard **Catalog** Team

Search...

Darrell Garrisor



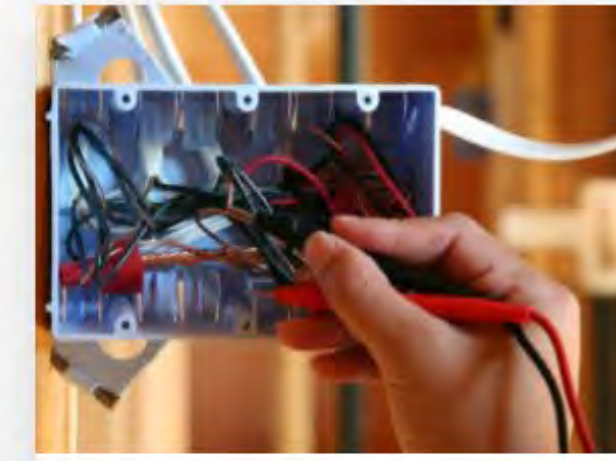
HVAC



Commercial HVAC



Solar



Electrical



Plumbing



IT



Multi-Family Facility Maintenance



Facilities Maintenance



Safety



Appliances



INTERPLAY

FROM THE CATALOG

File Edit View Window Help



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Dashboard **Catalog** Team

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Catalog > HVAC

HVAC

Competency Paths

Competency Pathways provide the most frictionless route possible to competency in a particular industry area. Each pathway culminates in the achievement of a shareable certificate.

Jump Start: HVAC Fundamentals 1 5-7 hrs 6 courses	Jump Start: HVAC Fundamentals 2 7-8 hrs 7 courses	Jump Start: Electrical & Controls 9-10 hrs 8 courses	Next Level: Cooling Diagnostics 25-28 hrs 7 courses	Next Level: Heating Diagnostics 18-24 hrs 6 courses
---	---	--	---	---

VIEW ALL

Learning Paths

With courses led by industry experts, learning paths provide a roadmap so you learn the right skills in the right order.

HVAC MiniCamp 21-33 hrs 12 courses	HVAC Cooling Basics 7-12 hrs 7 courses	HVAC Electricity 9-10 hrs 8 courses	HVAC Service Tech Level 1 14-23 hrs 9 courses	HVAC Service Tech: Jumpstart Program 12-17 hrs 5 courses
--	--	---	---	--

INTERPLAY

FROM THE CATALOG

File Edit View Window Help



Catalog

Search...

LOC

HVAC252
🕒 1 hr 📺 1 vid



Diagnosing A/C Systems

HVAC223
🕒 2-3 hrs 📺 17 vids



Commercial A/C Troubleshooting (3 Phase Compressor)

HVAC331
🕒 5-6 hrs 📺 14 vids 🎮 74 sims

HVAC253
🕒 1 hr 📺 1 vid



Residential A/C Troubleshooting

HVAC301
🕒 4-5 hrs 📺 16 vids 🎮 60 sims



Heat Pump Troubleshooting (Residential)

HVAC341
🕒 7-8 hrs 📺 15 vids 🎮 83 sims

HVAC254
🕒 1 hr 📺 2 vids



Gas Boiler Troubleshooting

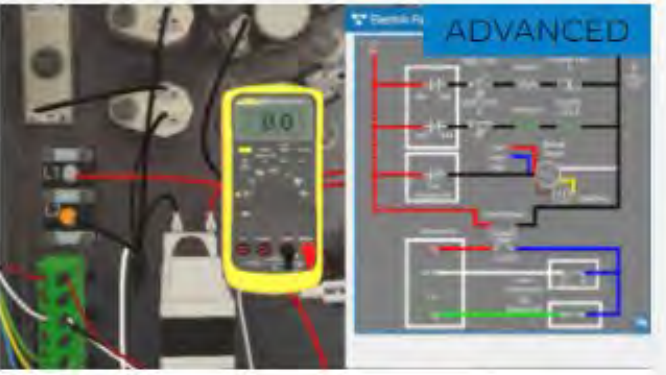
HVAC311
🕒 5-6 hrs 📺 14 vids 🎮 65 sims



Rooftop Unit Troubleshooting

HVAC351
🕒 3-4 hrs 📺 14 vids 🎮 27 sims

HVAC260
🕒 12-15 hrs 📺 21 vids 🎮 32 sims



Electric Furnace Troubleshooting

HVAC315
🕒 3-4 hrs 📺 10 vids 🎮 27 sims



Mini Split Troubleshooting **NEW**

HVAC375
🕒 5-6 hrs 📺 11 vids 🎮 30 sims

HVAC274
🕒 1-2 hrs 📺 4 vids 🎮 3 sims



Gas Furnace Troubleshooting

HVAC321
🕒 5-6 hrs 📺 12 vids 🎮 48 sims




Gas Rooftop Refrigeration Troubleshooting

HVAC701
🕒 1-2 hrs 📺 1 vid 🎮 9 sims

INTERPLAY

FROM THE COURSE

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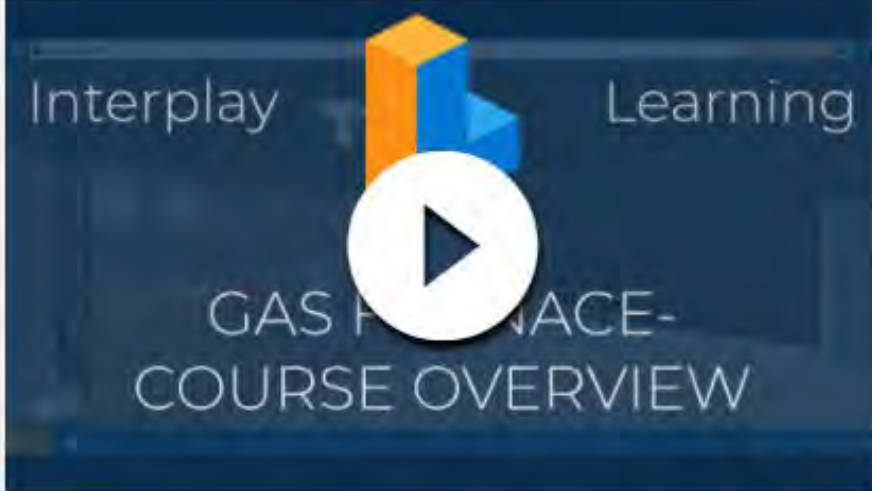
Search

25120 POINTS Darrell Garrisor


Gas Furnace Troubleshooting


- ★ Introduction ✓
- Gas Furnace Components Part 1
- Gas Furnace Components Part 2 ✓
- Final Assessment ✓
- Final Knowledge Check ✓

Introduction

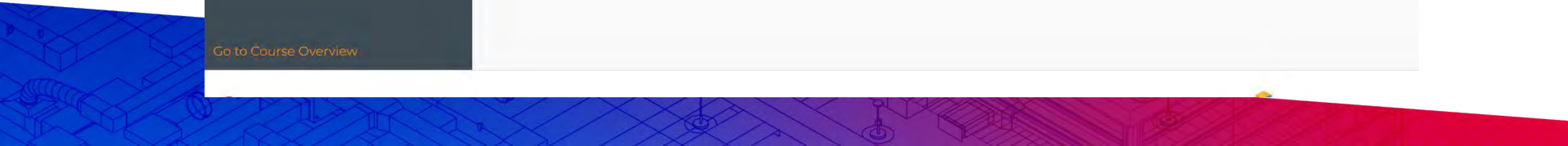
 **Overview Video** ✓

[START](#)

 **Sim Modes Overview** ✓

 **Gas Furnace Assessment Sim Example** ✓


[Go to Course Overview](#)



INTERPLAY

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 **International Training Institute**
For the Sheet Metal and Air Conditioning Industry


Dashboard Catalog Team


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Gas Furnace Troubleshooting

- ★ Introduction ✓
- Gas Furnace Components Part 1
- Gas Furnace Components Part 2 ✓
- Final Assessment ✓
- Final Knowledge Check ✓


Introduction


 Overview Video ✓

 Simulation Modes Overview

1. Training (Easy) <ul style="list-style-type: none">a. Detailed procedure guide with highlightsb. Assisted tool usage and navigationc. No scoring	3. Assessment (Hard) <ul style="list-style-type: none">a. Randomized scenariosb. No procedure guide or tool/nav helpc. 100% required passing score
2. Challenge (Intermediate) <ul style="list-style-type: none">a. Randomized scenariosb. Limited procedure guidec. Tool usage and navigation helpd. 80% required passing score	

Sim Modes Overview ✓



 Gas Furnace Assessment Sim Example ✓

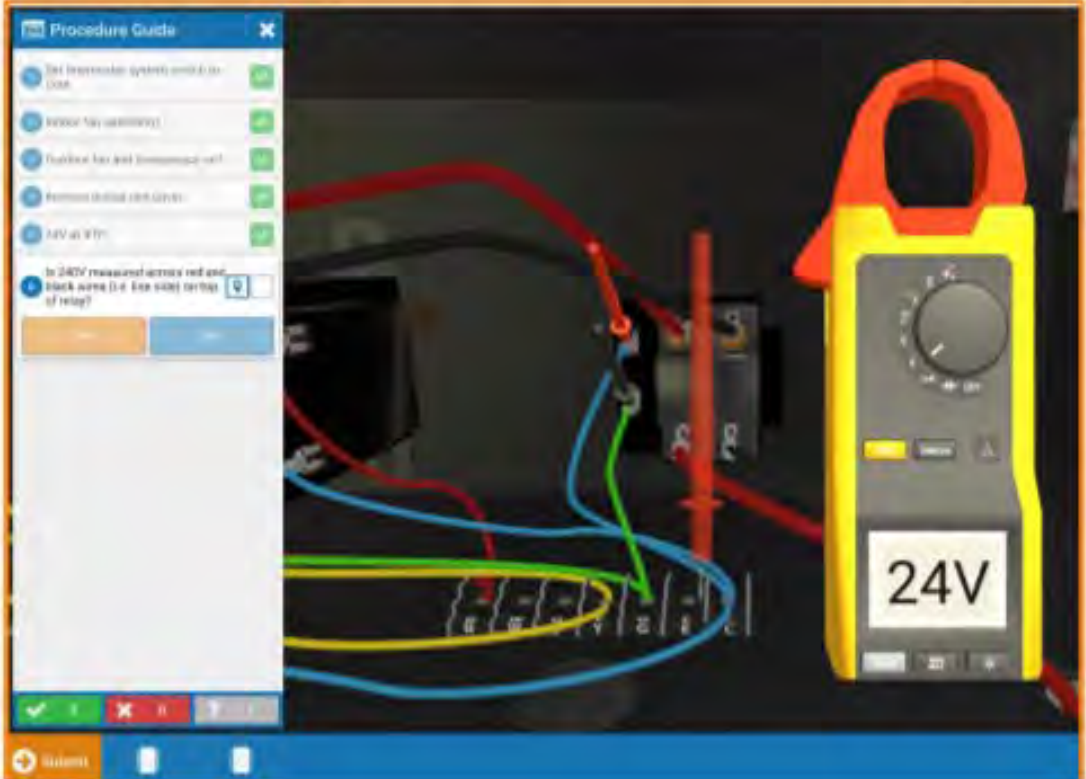
[Go to Course Overview](#)

INTERPLAY

SIMULATION MODES

SimModesOverview.pdf 1 / 6

Simulation Modes Overview

1. Training (Easy) <ul style="list-style-type: none">a. Detailed procedure guide with highlightsb. Assisted tool usage and navigationc. No scoring	3. Assessment (Hard) <ul style="list-style-type: none">a. Randomized scenariosb. No procedure guide or tool/nav helpc. 100% required passing score
2. Challenge (Intermediate) <ul style="list-style-type: none">a. Randomized scenariosb. Limited procedure guidec. Tool usage and navigation helpd. 80% required passing score	

How to Start Each Mode

Interplay Learning Residential A/C Troubleshooting: 3D/VR Sim EDIT 2755 POINTS STEPHEN QUIRK

FROM COURSE

INTERPLAY

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Dashboard Catalog Team

Search

25120 POINTS


Darrell Garrisor

Gas Furnace Troubleshooting

- Introduction ✓
- Gas Furnace Components Part 1
- Gas Furnace Components Part 2 ✓
- Thermostat ✓
- 2.2 Gas Valve ✓
- IFC ✓
- Air Filter ✓
- Challenge Simulation ✓
- Assessment Simulation ✓
- Knowledge Check ✓
- Final Assessment ✓
- Final Knowledge Check ✓

[Go to Course Overview](#)


Gas Furnace Components Part 2: Gas Valve

-  Walk-through Video ✓
-  Faulty Gas Valve Simulation ✓
-  Faulty Gas Valve Wire Simulation ✓
-  Knowledge Check ✓

INTERPLAY

THE TRAINING WALK-THROUGH

File Edit View Window Help

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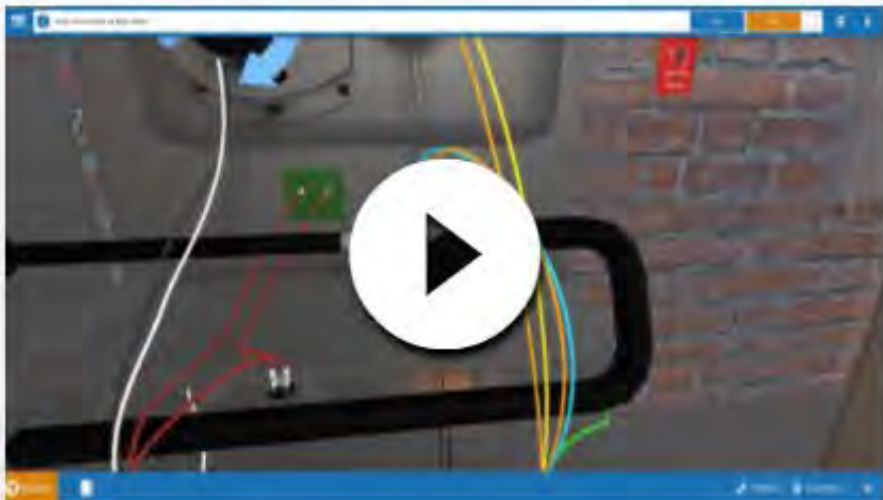
Gas Furnace Troubleshooting




- ★ Introduction ✓
- 1 Gas Furnace Components Part 1
- 2 Gas Furnace Components Part 2 ✓
 - 2.1 Thermostat ✓
 - 2.2 Gas Valve ✓
 - 2.3 IFC ✓
 - 2.4 Air Filter ✓
 - Challenge Simulation ✓
 - Assessment Simulation ✓
 - Knowledge Check ✓
- Final Assessment ✓
- Final Knowledge Check ✓

[Go to Course Overview](#)

Gas Furnace Components Part 2: Gas Valve

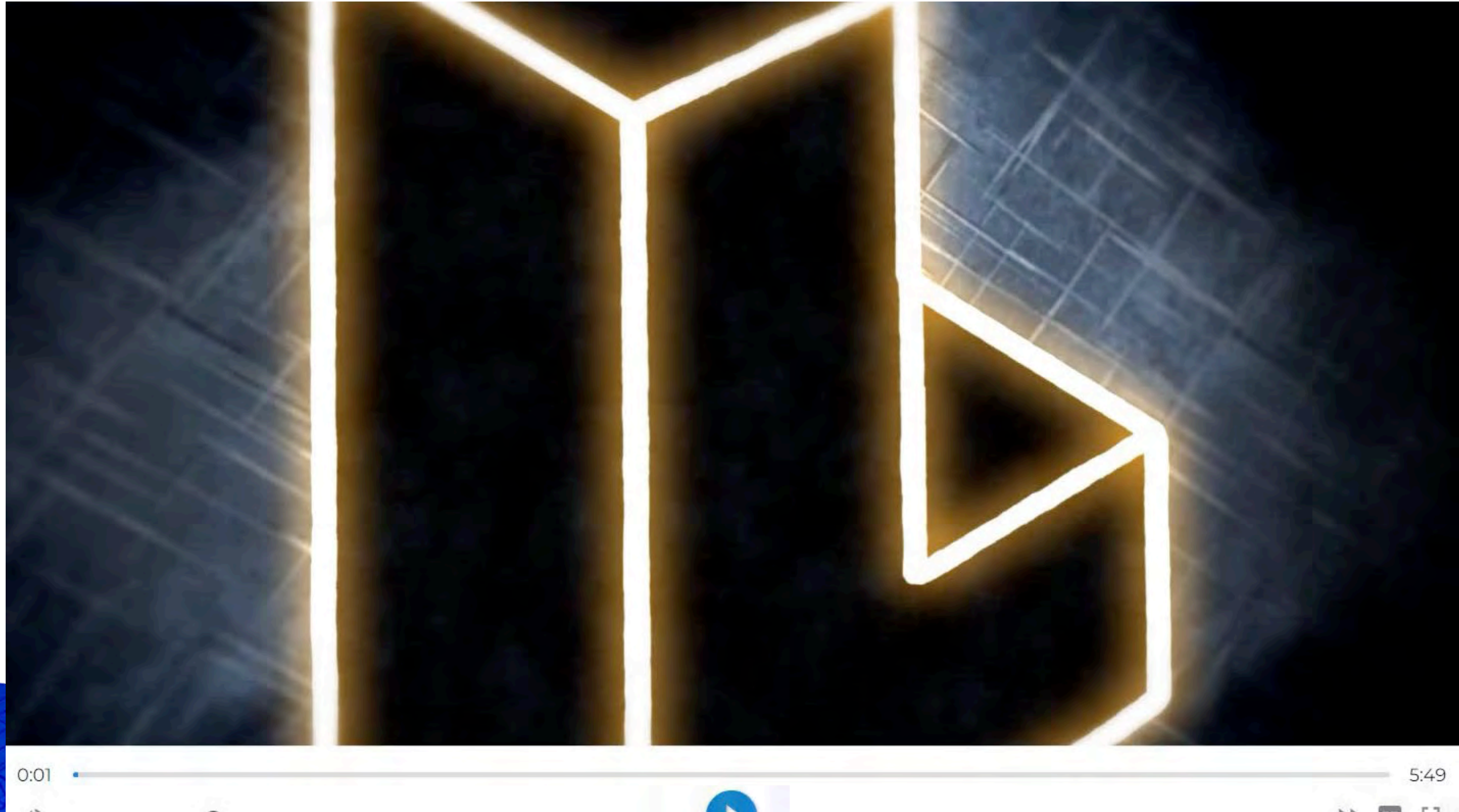
Walk-through Video ✓

 **START**

-  Faulty Gas Valve Simulation ✓
-  Faulty Gas Valve Wire Simulation ✓
-  Knowledge Check ✓

INTERPLAY


THE WALK-THROUGH



INTERPLAY

THE 2D SIMULATION

File Edit View Window Help

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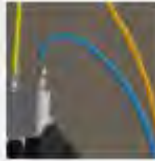

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Gas Furnace Troubleshooting

- Introduction ✓
- Gas Furnace Components Part 1
- Gas Furnace Components Part 2** ✓
- Thermostat ✓
- 2.2 Gas Valve ✓
- IFC ✓
- Air Filter ✓
- Challenge Simulation ✓
- Assessment Simulation ✓
- Knowledge Check ✓
- Final Assessment ✓
- Final Knowledge Check ✓

[Go to Course Overview](#)

Gas Furnace Components Part 2: Gas Valve

-  Walk-through Video ✓
-  Faulty Gas Valve Simulation ✓
-  Faulty Gas Valve Wire Simulation ✓
-  Knowledge Check ✓


INTERPLAY

THE 2D SIMULATION

The screenshot shows a 2D simulation interface for a thermostat system. On the left, a 'Procedure Guide' panel displays a step: '1 Set the thermostat system switch to the Heat position.' Below this is a 'Di' button. The main simulation area features a central green box labeled 'Ambient Temp: 65'. To the right are two octagonal buttons with upward and downward arrows. At the bottom, there are two sliders: 'Fan' with 'On' and 'Auto' positions, and 'System' with 'Heat', 'Off', and 'Cool' positions. The 'System' slider is currently set to 'Heat'. A bottom status bar includes a 'SUBMIT' button, a 'DiagramWindow' icon, and a progress indicator showing 0 correct, 0 incorrect, and 16 questions. On the far right, there are icons for 'Toolbox', 'Walk', and 'Thermostat Zoom'.

INTERPLAY

THE 3D SIMULATION

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Gas Furnace Troubleshooting

- Introduction ✓
- Gas Furnace Components Part 1
 - Pressure Switch ✓
 - Flame Sensor ✓
 - Hot Surface Ignitor ✓
 - 1.4 Transformer**
 - Challenge Simulation ✓
 - Assessment Simulation ✓
 - Knowledge Check ✓
- Gas Furnace Components Part 2 ✓
- Final Assessment ✓
- Final Knowledge Check ✓

[Go to Course Overview](#)

Gas Furnace Components Part 1: Transformer

- Walk-through Video ✓
- Faulty Transformer Simulation ✓
- Faulty Transformer Wire Simulation**
 LAUNCH [] LAUNCH [] [Refresh]
- Knowledge Check ✓


INTERPLAY

THE 3D SIMULATION



INTERPLAY

THE 3D SIMULATION

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Gas Furnace Troubleshooting




- ★ Introduction ✓
- Gas Furnace Components Part 1
 - 1.1 Pressure Switch ✓
 - 1.2 Flame Sensor ✓
 - 1.3 Hot Surface Ignitor ✓
 - 1.4 **Transformer**
- Challenge Simulation ✓
- Assessment Simulation ✓
- Knowledge Check ✓

Gas Furnace Components Part 2


- Final Assessment ✓
- Final Knowledge Check ✓


[Go to Course Overview](#)

Gas Furnace Components Part 1: Transformer

-  Walk-through Video ✓
-  Faulty Transformer Simulation ✓
-  Faulty Transformer Wire Simulation


Knowledge Check



[START](#) 

INTERPLAY

THE FIRE LIFE SAFETY SIMULATIONS

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All All **APPLY** CLEAR

Select All Courses

Course Title	Level	Status	Duration	Simulations	Actions
Radiation Ceiling Damper	BEGINNER	ENROLLED	1-2 hrs	13 sims	ENROLL
Fire Damper Inspection	BEGINNER	COMPLETED	1-2 hrs	9 sims	ASSIGN
Smoke Damper Inspection	INTERMEDIATE	ENROLLED	1-2 hrs	12 sims	ENROLL
FSD Inspection	INTERMEDIATE	ENROLLED	1-2 hrs	14 sims	ENROLL
Corridor Damper Inspection	INTERMEDIATE	ENROLLED	1-2 hrs	11 sims	ENROLL
Stairwell Pressurization Testing	ADVANCED	ENROLLED	2-4 hrs	8 sims	ENROLL

INTERPLAY

THE SMOKE DAMPER SIMULATION

Clipboard

Smoke Damper Inspection Report

Damper Manufacturer:

Damper Model #:

Damper Type: Damper Size:

Actuator Style:

Access Door Size:

Blade Closure Test:

Access Door Sizing:

Access Door Properly Sealed:

Retention Angle/Mount:

Pass/Fail:

0 ✓ 0 ✗ 13 ?

INTERPLAY

THE SMOKE DAMPER SIMULATION

1 Turn the disconnect switch off. OK

Clipboard

Smoke Damper Inspection Report

Damper Manufacturer: RUSKIN ✓

Damper Model #: SD60M ✓

Damper Type: Smoke ✓ Damper Size: 14"x14" ✓

Actuator Style: Electric ✓

Access Door Size: 12"x12" ✓

Blade Closure Test: In Progress

Access Door Sizing: ✓ ✗

Access Door Properly Sealed: ✓ ✗

Retention Angle/Mount: ✓ ✗

Pass/Fail: ✓ ✗

✓ 6 ✗ 0 ? 7

SUBMIT Clipboard

Walk Damper Switch

SUMMARY

- This was a very brief overview of the two platforms that the ITI has been using for online service training.
- Both of these platforms work well together and separately.
- For more information, please reach out to us

The image displays two digital platforms. The top platform is Cengage MindTap, showing a course titled "IAQ/Ventilation Verification Supplemental". The course content is organized into sections: "How to Use the Simulations" (4 activities), "S/P2 Soft Skills Bundle" (6 activities), "Section 1: Theory of Heat" (46 activities), "Section 2: Safety, Tools and Equipment, and Shop Practices" (44 activities), "Section 3: Basic Automatic Controls" (55 activities), and "Section 4: Electric Motors" (69 activities). The bottom platform is the International Training Institute (ITI) catalog, featuring a grid of training modules: HVAC, Commercial HVAC, Solar, Electrical, Plumbing, ITI, Multi-Family Facility Maintenance, Facilities Maintenance, Safety, Appliances, and Residential Construction (marked "COMING SOON").

ONLINE TRAINING

ITI RESOURCES

ONLINE SELF PACED TRAINING

- COVID-19 Awareness
- Fire and Smoke Damper Technician
- Foreperson Training
- Grinder Safety
- ICRA Awareness for the Sheet Metal Worker
- Introduction to Lean Construction
- JAC/JATC Trustee Awareness
- MS Office Tutorials
- Smoke Control Systems Technician
- Supervisory Training
- Trimble Total Station Tutorials
- Trimble XR10 Tutorial
- Welder Performance Qualification (WPQ) Exam Prep
- CWI Part A – Fundamentals Exam Prep
- Non-Destructive Examination Symbols
- Understanding Welding Symbols

ITI RESOURCES

ONLINE SELF PACED TRAINING

- Ventilation Verification for IAQ
- TAB Online Training (Coming April 2022)
- Title 24 - 2013 Review (California)
- Title 24 - 2016 (California)
- Title 24 - 2019 MATT Level 1 (California)
- Title 24 - 2019 MATT Level 2 (California)

The background features a complex isometric technical drawing of various mechanical parts, including bolts, nuts, and shafts, rendered in a light blue color. This pattern is overlaid on a background that transitions from a deep blue on the left to a vibrant red on the right. The text 'INSTRUCTOR TRAINING' is centered horizontally and vertically in a large, white, sans-serif font.

INSTRUCTOR TRAINING

ITI RESOURCES

INSTRUCTOR TRAINING

- Professional Development Classes
- Technical Instructor Training
 - Architectural
 - Welding Instruction
 - Welding Inspection
 - TAB
 - HVACR Service
 - BIM
 - Hoisting and Rigging
 - SMART MAP
 - Lagging
 - Infection Control Risk Assessment (ICRA)
 - Fire and Smoke Damper Technician
 - Smoke Control System Technician
 - OSHA 510, 500 & 502 for Construction
 - OSHA 511, 501 & 503 for General Industry
 - TotalTrack for Instructors and Admins

ITI RESOURCES

STRIKE FORCE/HOT SHOT TRAINING

- Utilized when there is a need for specialized training not currently being offered
- Utilized when many people need to be trained quickly for a specific skill or jobsite
- ITI will work with Vendors and Contractors to provide the Training
- JATC responsible for providing equipment, tools, materials and required mockups
 - ITI Grants and Loans may be utilized to offset this cost
- Must be requested through your Local JATC and be available to all area members
- Training to take place at JATC whenever possible

The background features a complex isometric technical drawing of a mechanical assembly, rendered in a light blue color. The drawing includes various components such as gears, shafts, and housing parts, all arranged in a perspective view. The overall background has a color gradient that transitions from a deep blue on the left to a vibrant red on the right.

QUESTIONS?

CONTACT THE ITI FOR MORE INFORMATION

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Executive Director

dmccallum@sheetmetal-iti.org

Michael Harris

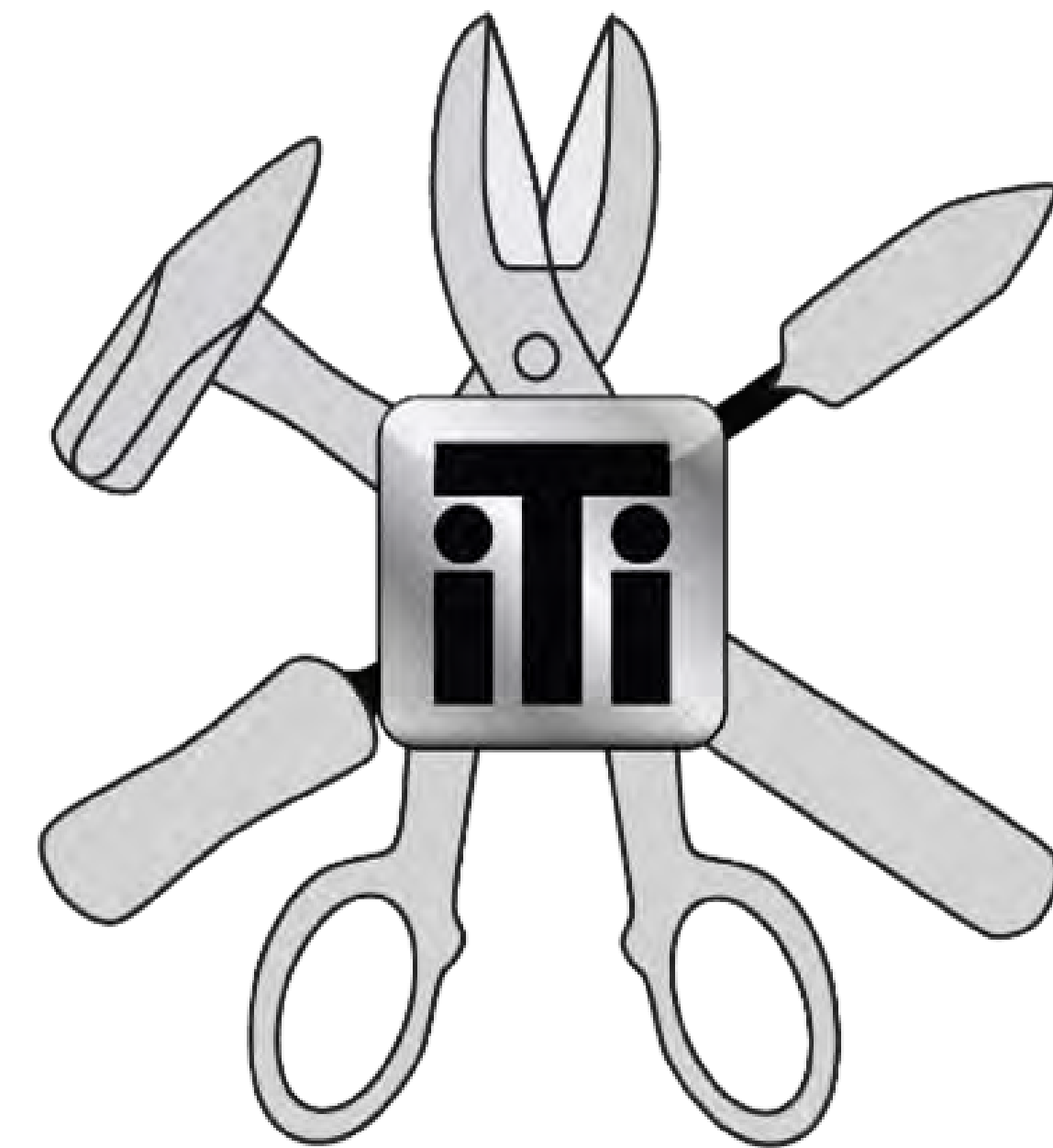
Administrator

mharris@sheetmetal-iti.org

Darrell Garrison

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dgarrison@sheetmetal-iti.org



www.sheetmetal-iti.org



InternationalTrainingInstitute



ITISheetMetal

The background is a complex isometric technical drawing in white lines on a blue-to-red gradient. It features various mechanical components such as gears, shafts, and structural frames, all rendered in a perspective view that creates a sense of depth and technical precision.

PLEASE REMEMBER TO FILL OUT YOUR BREAKOUT
SURVEY ON THE APP

BUILDING the **FUTURE** **TOGETHER**



Please wear you mask
during all session