



STRATASKILLS INDUSTRY SOLUTIONS CATALOG

RECRUIT · TRAIN · RETRAIN · RETAIN



EQUIP YOUR COMPANY WITH HANDS-ON TRAINING



StrataSkills Industry Solutions will give your business the competitive advantage through the professional development & advancement of your skilled employees.

Choose as many courses as you would like to advance your employees' skills to the next level. StrataSkills' courses are all taught by professional instructors who have years of industry experience under their belts. Whether your employees are entry-level or mid-level, our courses will advance their talents.

Check out our StrataSkills Industry Solutions catalog for more details regarding our courses and topics covered.



About StrataSkills

StrataSkills is a part of StrataTech Education Group, a long-time leader in training skilled professionals. StrataTech Education Group, parent company of Tulsa Welding Schools (TWS) and The Refrigeration School, Inc. (RSI), provides talented workers for employers in a myriad of industries, including welding, HVAC/R, electrical and pipefitting.



Tulsa Welding School (TWS) was founded in 1949 in Tulsa, Oklahoma, by two welders to meet the demand for skilled tradespeople in the welding industry. Since then, TWS has become a multi-campus institution that trains students in the skills, knowledge, and attitudes necessary for entry-level positions in the skilled trades.

Started in 1965, The Refrigeration School, Inc. (RSI) located in Phoenix, Arizona, trains individuals in the fundamentals of heating, ventilation, air conditioning, refrigeration (HVAC/R), electrical and welding. RSI's experienced, professional instructors teach training programs that are designed based on industry feedback to meet employers' needs.

StrataSkills brings this time-tested training directly to skilled trades companies seeking to upskill or certify current employees, and train new hires. TWS and RSI also offer a regular supply of trained graduates ready to fill your open positions.

WHAT OUR PARTNERS SAY

Snyder Heating & Air

"Tulsa Welding School has been an incredible resource for us. (Students) come ready with the skills to have an exciting, lucrative career in the HVAC industry." - *Tim W.*



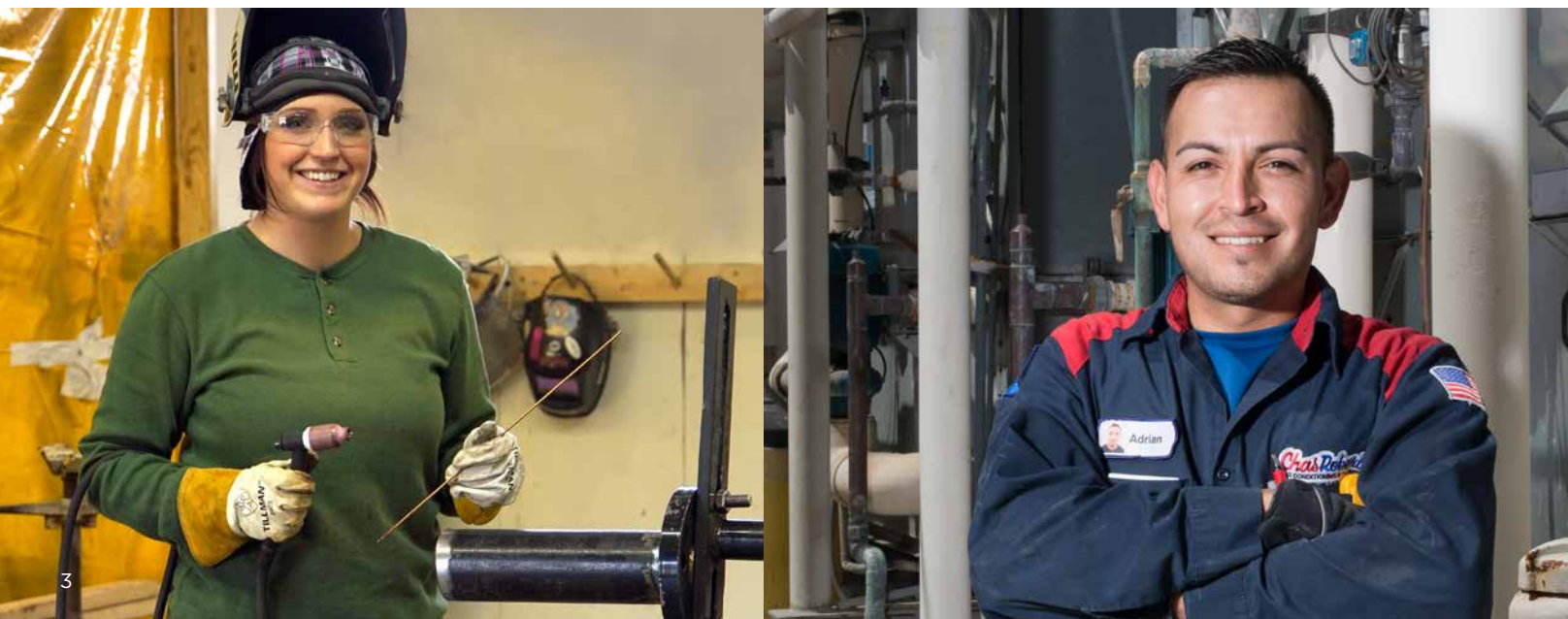
Goettl

"As far as RSI graduates, our experience has been fantastic. The knowledge base that the guys have coming out of the school is second to none." - *Darren W.*

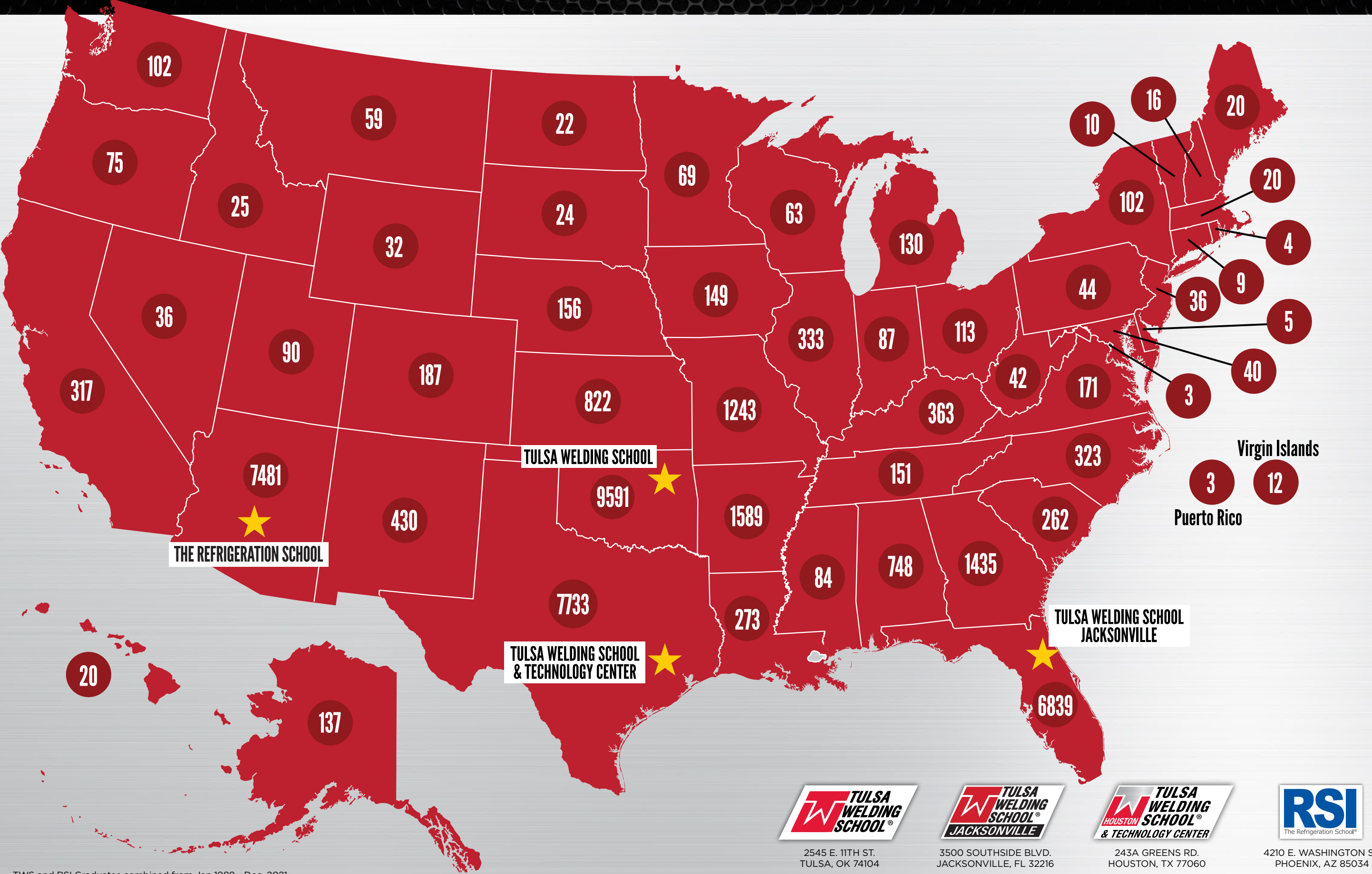


Chart Industries

"What we've experienced from the welders that come from Tulsa, they've got the right foundation to start a career in welding and come in to Chart and build upon that." - *John N.*



STRATATECH EDUCATION GROUP GRADUATES ACROSS THE U.S.



TWS and RSI Graduates combined from Jan 1989 - Dec. 2021

TULSA WELDING SCHOOL
2545 E. 11TH ST.
TULSA, OK 74104

TULSA WELDING SCHOOL JACKSONVILLE
3500 SOUTHSIDE BLVD.
JACKSONVILLE, FL 32216

TULSA WELDING SCHOOL & TECHNOLOGY CENTER HOUSTON
243A GREENS RD.
HOUSTON, TX 77060

RSI The Refrigeration School
4210 E. WASHINGTON ST.
PHOENIX, AZ 85034

VIRTUAL WELDING

DESIGNED BY WELDERS FOR WELDERS



The OcuWeld™ is a completely offline welding simulator software developed by professional welding instructors at Tulsa Welding School (TWS) and The Refrigeration School, Inc. (RSI). This means they will not need a wifi or internet connection and can practice anywhere and at any time what real welding is like.

OcuWeld™ will allow you to train your employees on multiple welding processes without materials waste or safety risk. This is a great way to get your welders initiated on new welding techniques before they begin welding on real materials. OcuWeld™ offers continual guidance throughout use of the system and will give assessments of welds to the user to help improve their capabilities.



19 REAL WELDING PROCESSES

TIG, MIG, STICK AND FLUX CORE WELDING

OcuWeld™ has 19 different welding process positions and welds, including TIG, MIG, stick and flux core welding. Each process was handpicked by our expert instructors to offer the most comprehensive virtual welding training experience available today.

COURSE CATALOG

WELDING

Practical Weld Inspection	9
Welding Instructor Training	9
Certified Welding Inspector Prep Course.....	10
Welding Basics.....	10
Welding Fundamentals for Supervision and Sales	11
Intermediate Gas Tungsten Arc (TIG) Welding	11
Advanced Shielded Metal Arc Welding	12
Advanced Gas Tungsten Arc (TIG) Welding	12
Gas Metal Arc Welding (GMAW) & Flux Core Arc Welding (FCAW)	13
Advanced Gas Metal Arc Welding (GMAW) & Flux Core Arc Welding (FCAW)	13
Shielded Metal Arc Welding - Fundamentals	14
TWS Mobile Weld Training Unit	14

HVAC

System Performance	15
Residential Heat Load Analyst.....	15
System Recovery and Evacuation	16
System Diagnostics and Troubleshooting Procedures.....	16
High Efficiency HVAC System.....	17
Air Handlers and Roof Top Units	17

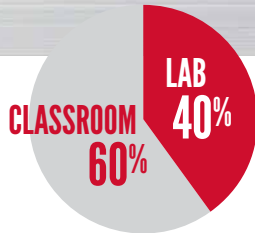
ELECTRICAL

Electrical Troubleshooting.....	18
---------------------------------	----

GENERAL

OSHA 10 - General Industry	19
Confined Space Safety Training	19
Custom Training Solutions.....	19
EPA Universal Prep.....	20
Custom Training Solutions.....	21

SEMINARS & SHORT COURSES



PRACTICAL WELD INSPECTION

PRICE PER STUDENT: \$1,500
COURSE TRAINING DURATION:
20 HRS

COURSE DESCRIPTION

This course trains students in Non-Destructive Testing (NDT) and Destructive Testing (DT) welding inspection methods.

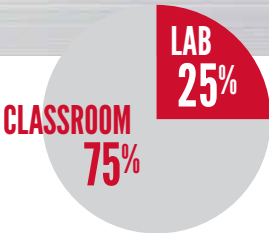
OBJECTIVES

- 1. Prepare students to inspect a variety of welds to meet industry quality standards
- 2. Provide students practical experience in the most common Destructive Testing (DT) and Non-Destructive Testing (NDT) methods
- 3. Provide an academic and practical starting point for students seeking to earn the Certified Welding Inspector (CWI) designation

MODULES

- | | | |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| NDT - NON-DESTRUCTIVE TESTING
1. Radiography X-Ray
2. PT Testing
3. Mag Particle Testing
4. Ultrasonic Testing | DT - DESTRUCTIVE TESTING
1. Guided Bend Testing
2. Transverse Tension
3. Macro Etch Testing | VT - VISUAL TESTING
1. Undercut
2. Overlap
3. Overfill
4. Porosity |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|

SEMINARS & SHORT COURSES



CERTIFIED WELDING INSPECTOR PREP COURSE

PRICE PER STUDENT: \$3,000
COURSE TRAINING DURATION:
40 HRS

COURSE DESCRIPTION

This course prepares students to take the CWI exam, focusing on code review and examples of poor and excellent weld quality. Students will learn Destructive Testing (DT) and Non-Destructive Testing (NDT) methods. The CWI exam is perfect for employees whose duties involve welding or working with welders. Students should be prepared with their own code book but one can be purchased if necessary.

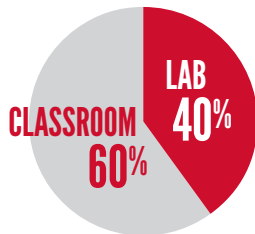
OBJECTIVES

- 1. Prepare students employed as “in-field” workers to succeed in passing the CWI exam
- 2. Build student familiarity and expertise with Code Book strategies and navigation
- 3. Provide students exposure and experience with Destructive Testing (DT) and Non-Destructive Testing (NDT) methods and evaluation

MODULES

- | | | |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NDT - NON-DESTRUCTIVE TESTING
1. Radiography X-Ray
2. PT Testing
3. Mag Particle Testing
4. Ultrasonic Testing | DT - DESTRUCTIVE TESTING
1. Guided Bend Testing
2. Transverse Tension
3. Macro Etch Testing

CWI COMPLIANCE
1. Code Book Navigation
2. Code Book Strategies | 3. Developing Prequalified WPS
4. Verifying WPS Compliance
5. Welding To Prequalified WPS Developed
6. Practical Weldment Inspection
7. Exam Practice Problems and Independent Proctored Study
8. Practice Exam |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



WELDING INSTRUCTOR TRAINING

PRICE PER STUDENT: \$1,875
COURSE TRAINING DURATION:
25 HRS

COURSE DESCRIPTION

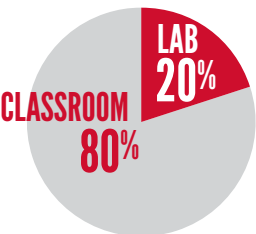
This course will teach experienced welders how to become effective welding instructors. Attendees will learn how to communicate to students, adapt to different learning styles, and how to grade assignments.

OBJECTIVES

- 1. Prepare seasoned welders to become effective and efficient welding instructors in a trade school or job site setting
- 2. Prepare new instructors to understand how to relate to and provide feedback to students of many different learning styles and age groups
- 3. Develop classroom presentation and communication skills useful on the job and in other business and professional contexts

MODULES

- | | | |
|------------------------------------|----------------------------------|----------------------------|
| 1. Classroom Instruction | 5. Communication Skills | 7. Grading and Improvement |
| 2. Presentation Setup and Delivery | 6. Multi-Generational Adaptation | 8. Course Manual Review |
| 3. Diagram Development | 4. Safety Demonstration | |
| 4. Soft Skills | 5. Weld Demonstration Skills | |
| | 6. Student Weld Critique | |



WELDING BASICS

PRICE PER STUDENT: \$1,500
COURSE TRAINING DURATION:
20 HRS

COURSE DESCRIPTION

This course is an introduction to common welding processes like MIG, TIG, and Stick/Arc welding, basic welding fabrication skills, and necessary safety precautions. This course is perfect for workers who need to have a basic understanding of welding.

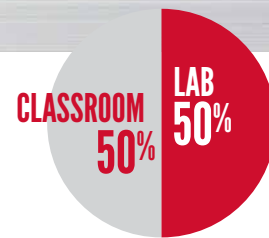
OBJECTIVES

- 1. Develop foundational welding skills in MIG, TIG, and Stick/Arc welding processes
- 2. Understand and apply welding safety techniques
- 3. Understand and apply the basic scientific and mechanical principles necessary to safely operate and troubleshoot welding equipment

MODULES

- | | | |
|-------------------------------------------|------------------|---------------------------------------------------------------------------|
| 1. Weld Safety | 5. MIG Welding | 8. Basic Metallurgy Principles related to small scale or at home projects |
| 2. Basic Welding Principles | 6. TIG Welding | |
| 3. Weld Puddle Manipulation | 7. Stick Welding | |
| 4. Welding Equipment Setup and Inspection | | |

SEMINARS & SHORT COURSES



WELDING FUNDAMENTALS FOR SUPERVISION AND SALES

PRICE PER STUDENT: \$1,500
COURSE TRAINING DURATION:
20 HRS

COURSE DESCRIPTION

This course covers the most common industrial welding processes like TIG, MIG, Flux Cored, Gas Metal Arc, and Plasma Arc welding. It teaches students to apply these processes in job functions like product design, shop oversight, sales, and sourcing. This course is perfect for employees who will serve in roles like plant managers, operations and supply chain specialists, and in sales functions.

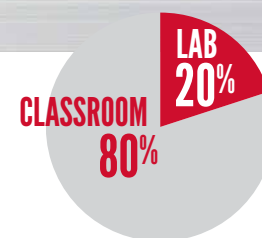
OBJECTIVES

1. Provide an introduction to welding fundamentals for students who are in management, sales, supply chain, or other supervisory roles
2. Equip students to better oversee welding operations, participate in product design, and improve product knowledge for sales and purchasing
3. Develop a foundational welding skillset in MIG, TIG, Flux Cored, Gas Metal Arc, and Plasma Arc welding processes and equipment common in industrial settings

MODULES

- | | |
|--------------------------------------------------|------------------------------------|
| 1. Science and Theory Behind Each Weld Process | 5. Welding Demonstrations |
| 2. Weld Material and Process Overview | 6. Weld Inspection Basics |
| 3. Language, Weld Symbols, and Blueprint Reading | 7. Machine and Equipment Knowledge |
| 4. Safety and Equipment Inspection | 8. Equipment Troubleshooting |
| | 9. Welding Troubleshooting |

INDIVIDUAL FULL LENGTH COURSES



ADVANCED SHIELDED METAL ARC WELDING

PRICE PER STUDENT: \$1,875
COURSE TRAINING DURATION:
25 HRS

COURSE DESCRIPTION

This course teaches students the advanced techniques of the Shielded Metal Arc Welding (SMAW) process and how to apply it on various sizes and positions of pipes. Students will be using E7108 electrodes in this course.

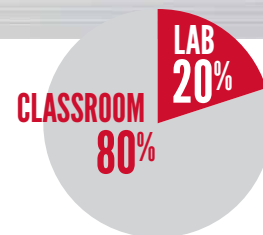
OBJECTIVES

1. Provide the knowledge and experience needed to understand and perform intermediate and advanced SMAW welding techniques in the industrial or commercial pipe welding field.

MODULES

- | | |
|-----------------------------------------------------------|-----------------------------------------------------------|
| 1. Weld Safety | 4. Carbon Steel-Pipe Clean Up and Preparation for Welding |
| 2. Equipment Inspection, Setup, and Maintenance | 5. Open-Root Positions (2G, 5G, and 6G) |
| 3. Machine Set-Up | 6. Pipe Sizes 5" and 2" |
| 4. SMAW Rod Selection For Open Root vs Fill and Cap Welds | |

INDIVIDUAL FULL LENGTH COURSES



INTERMEDIATE GAS TUNGSTEN ARC (TIG) WELDING

PRICE PER STUDENT: \$1,875
COURSE TRAINING DURATION:
25 HRS

COURSE DESCRIPTION

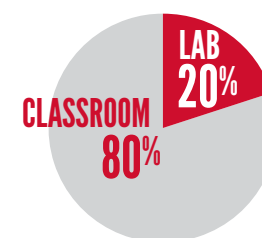
This course teaches the basics of the Intermediate Gas Tungsten Arc (TIG) welding process and how to use it on steel plates and pipes. Students will also learn the basics of setting up and operating a torch, in addition to basic and intermediate TIG welding techniques.

OBJECTIVES

1. Provide the knowledge and experience needed for basic and intermediate TIG welding jobs in the structural or pipe field.

MODULES

- | | |
|---------------------------------------------------|---------------------------------------------------------------|
| 1. Weld Safety | 6. Carbon Steel - 5" Pipe Set-Up and Preparation |
| 2. Equipment Inspection, Setup, and Maintenance | 7. Groove Welding Techniques |
| 3. TIG Torch Set-Up | 8. Open Root Welding Methods On Plate and Pipe |
| 4. Carbon Steel-Structural Set Up and Preparation | 9. Multiple Positions (Flat, Horizontal, Vertical, 45 Degree) |
| 5. Fillet and Lap Joints | |



ADVANCED GAS TUNGSTEN ARC (TIG) WELDING

PRICE PER STUDENT: \$1,875
COURSE TRAINING DURATION:
25 HRS

COURSE DESCRIPTION

This course builds on what students learned in the Intermediate TIG Welding course, teaching them additional pipe welding processes like stainless steel pipe welding and the purging process used for food processing equipment and specialty metals. Students will also learn high-frequency welding on sheet metals like stainless steel and aluminum.

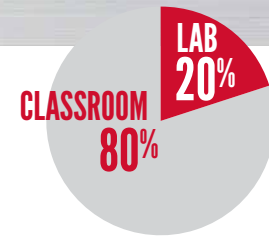
OBJECTIVES

1. Provide the knowledge and high experience needed for advanced stainless welding techniques including purging on alloying metals, and high frequency welding on stainless and aluminum material while using a foot pedal to control amperage.

MODULES

- | | |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 1. Weld Safety | 4. Aluminum Sheet Metal Welds (T-Joint, Pad, Lap Joint) |
| 2. Equipment and Material Inspection, Setup, and Maintenance For High-Frequency Welding (AC & DC Polarities) | 5. Stainless Steel Sheet Metal Welds (T-Joint, Pad, Lap Joint) |
| 3. Purging Set-Up and Execution Of Open Root Welds Relating To Alloying Pipes Such As Stainless Steel. | |

INDIVIDUAL FULL LENGTH COURSES



GAS METAL ARC WELDING (GMAW) & FLUX CORE ARC WELDING (FCAW)

PRICE PER STUDENT: **\$1,875**
COURSE TRAINING DURATION: **25 HRS**

COURSE DESCRIPTION

This Course teaches the basics of the Gas Metal Arc Welding (GMAW) and Flux Core Arc Welding (FCAW) processes on applied groove and fillet welds in various positions and joints on carbon steel plate. Students will be taught from the ground up, learning the basics of a fillet weld using GMAW and FCAW as well as open root groove welds using GMAW and FCAW processes.

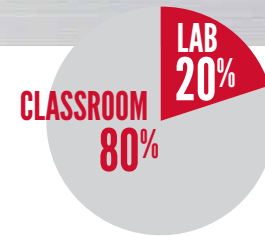
OBJECTIVES

1. Provide the knowledge and experience needed for basic and/or entry level GMAW & FCAW welding jobs in the structural field.

MODULES

- | | |
|--------------------------------------------------|----------------------------------------------------------|
| 1. Weld Safety | 4. Carbon Steel-Structural Plate Set Up and Preparation |
| 2. Equipment Inspection, Setup, and Maintenance | 5. Fillet (2F, 3F, 4F) and Open-Root Joints (2G, 3G, 4G) |
| 3. Machine Set-Up and Troubleshooting | 6. Open Root Groove Welding Techniques |
| 4. Wire and Gas Selection For .035" & .045" Wire | |

INDIVIDUAL FULL LENGTH COURSES



SHIELDED METAL ARC WELDING FUNDAMENTALS

PRICE PER STUDENT: **\$1,875**
COURSE TRAINING DURATION: **25 HRS**

COURSE DESCRIPTION

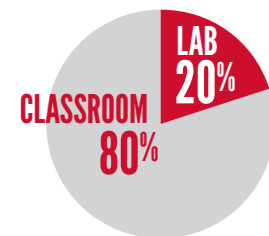
This course will teach the basics of the Shielded Metal Arc Welding (SMAW) process: applying groove and fillet welds on various types of positions and joints on a carbon steel plate. Students will also learn the basics of a padding weld, T-joints and basic open root welding with 6010 and 7018 SMAW rods.

OBJECTIVES

1. Provide the knowledge and experience needed for basic and/or entry level SMAW welding jobs in the structural field

MODULES

- | | |
|-------------------------------------------------|----------------------------------------------------------|
| 1. Weld Safety | 4. Carbon Steel-Structural Set Up and Preparation |
| 2. Equipment Inspection, Setup, and Maintenance | 5. Fillet (2F, 3F, 4F) and Open-Root Joints (2G, 3G, 4G) |
| 3. Machine Set-Up | 6. Open Root Groove Welding Techniques |
| 4. SMAW Rod Selection | |



ADVANCED GAS METAL ARC WELDING (GMAW) & FLUX CORE ARC WELDING (FCAW)

PRICE PER STUDENT: **\$1,875**
COURSE TRAINING DURATION: **25 HRS**

COURSE DESCRIPTION

This course builds on what students learned in the Gas Metal Arc Welding (GMAW) and Flux Core Arc Welding (FCAW) processes. Students in this course will use MIG and FCAW processes to complete an open root pipe weld on 5" pipe in various positions.

OBJECTIVES

1. Provide the knowledge and experience needed to understand and perform intermediate and advanced GMAW & FCAW welding techniques in the structural field

MODULES

- | | |
|---------------------------------------------------------------|-----------------------------------------------------------|
| 1. Weld Safety | 4. Carbon Steel-Pipe Clean Up and Preparation For Welding |
| 2. Equipment Inspection, Setup, and Maintenance | 5. Open-root positions (2G, 5G, and 6G) |
| 3. Machine Set-Up and Troubleshooting | 6. Pipe Sizes 5" sch40 |
| 4. Wire and Gas Selection For Open Root Vs Fill and Cap Welds | |

TWS MOBILE WELD TRAINING UNIT

Tulsa Welding School is now providing an opportunity for companies to offer additional training for their welders with *Tulsa Welding School Welder Qualification Training*, completely on-site with the *TWS Mobile Weld Training Unit*.

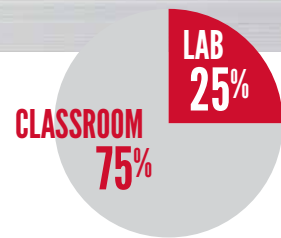
- | | |
|--------------------------------------|-------------------------------------------------------------------|
| • Gas Metal Arc Welding (GMAW) | • AWS Certified Welding Instructor (CWI) |
| • Flux Cored Arc Welding | • 8 Individual Welding Stations |
| • Gas Tungsten Arc Welding (TIG) | • Miller Dynasty 280 DX Multiprocess |
| • Shielded Metal Arc Welding (Stick) | • Miller ArcReach 12 Suitcase Feeder |
| • Thermal Cutting | • Outlaw Leather Welding Hoods (or trainee can provide their own) |
| • Inspection/Testing | • Welding Rods and Consumables |



How Does it Work?

Once we meet with you and evaluate your training needs to develop a plan, schedule, and quote, we will bring the **TWS Mobile Weld Training Unit** to your location. We'll have 8 welding stations ready when you are. The **TWS Mobile Weld Training Unit** is completely equipped with welding equipment and supplies.

SEMINARS & SHORT COURSES



SYSTEM PERFORMANCE

PRICE PER STUDENT: \$600
COURSE TRAINING DURATION:
8 HRS

COURSE DESCRIPTION

This course teaches students how to properly set up a heating, ventilation and air conditioning (HVAC) system to achieve equipment efficiency ratings.

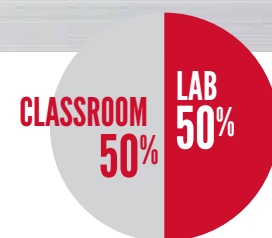
OBJECTIVES

1. Cover the properties of air, airflow measuring tools, CFM calculations/requirements, blower performance, and sensible heat ratios
2. Review the three charging methods: by weight, system superheat, and condenser subcooling by calculating the total charge based on line sizes and providing an easy method to verify that a system is operating at its rated capacity
3. Cover parts of the psychrometric chart and calculate the thermodynamic properties of air
4. Demonstrate using wet and dry bulb temperatures to plot the conditions of air being heated or cooled, enabling the technician to view a system's effect on the sensible and latent heat load of a building
5. Review the basic combustion process and the factors that affect heating efficiency including proper methods for setting furnace airflow, adjustment and testing fuel pressure, and flue gas venting

MODULES

1. Airflow
2. Critical Charging Procedures
3. Psychrometrics
4. Combustion Analysis

SEMINARS & SHORT COURSES



SYSTEM RECOVERY AND EVACUATION

PRICE PER STUDENT: \$600
COURSE TRAINING DURATION:
8 HRS

COURSE DESCRIPTION

This course walks students through each step of refrigerant recovery and system evacuation, while covering safety, theory, and application. Students will also acquire a working knowledge of the tools and industry best practices.

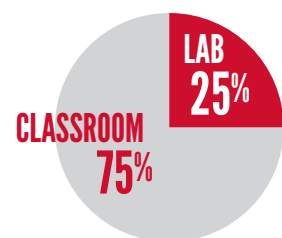
Note: This course can be taken on-ground or 100% online

OBJECTIVES

1. Provide the knowledge and training to perform the refrigerant recovery process, recycling and reclamation
2. Provide the knowledge and training to perform the evacuation process, proper tool use, measurement of a deep vacuum, and filter driers

MODULES

1. Understand The Refrigerant Recovery Process
2. Discuss EPA Refrigerant Recovery Requirements
3. Explain The Differences Between Recycling and Reclaiming Refrigerant
4. Describe The Tools and Equipment Necessary For Refrigerant Recovery
5. Understand Evacuation Theory
6. Describe The Tools and Equipment Necessary For System Evacuation
7. Explain The Use Of A Micron Gauge
8. Discuss The Differences Between Suction and Liquid Line Filter Driers



RESIDENTIAL HEAT LOAD ANALYST

PRICE PER STUDENT: \$600
COURSE TRAINING DURATION:
8 HRS

COURSE DESCRIPTION

This course teaches students how to determine the proper heating and cooling load for a structure when installing a new HVAC system.

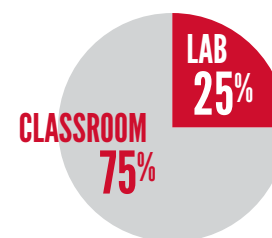
Note: This course can be taken on-ground or 100% online

OBJECTIVES

1. Perform analysis to determine the proper heating and cooling load for a structure
2. Understand the implications of heating and cooling load on human factors such as comfort and health
3. Understand the implications of heating and cooling load on system performance, useful life, and energy consumption

MODULES

1. Introduction To Building Heat Transfer
2. Building Envelope Analysis
3. Windows and Doors
4. Heat Gain and Loss Calculations



SYSTEM DIAGNOSTICS AND TROUBLESHOOTING PROCEDURES

PRICE PER STUDENT: \$600
COURSE TRAINING DURATION:
8 HRS

COURSE DESCRIPTION

This course teaches students how to diagnose air conditioning and refrigeration system problems. Students will have a manual to read during the course.

Note: This course can be taken on-ground or 100% online

OBJECTIVES

1. Systematic troubleshooting and diagnostics of: airflow problems, refrigerant cycle malfunctions, suction and liquid line restrictions, and oil logged evaporator
2. Systematic troubleshooting and diagnostics of: undercharge, overcharge, compressor inefficiencies, dirty condenser, air in the system, restricted metering device, and low and high condenser entering air temperatures

MODULES

1. Airflow Problems
2. Refrigerant Cycle Malfunctions
3. Suction and Liquid Line Restrictions
4. Oil Logged Evaporator
5. Under and Overcharge
6. Compressor Inefficiencies and Dirty Condensers
7. Air In The System and Restricted Metering Devices
8. Low and High Condenser Entering Air Temperatures

100% ONLINE

HIGH EFFICIENCY HVAC SYSTEM

PRICE PER STUDENT: \$1,200
COURSE TRAINING DURATION:
16 HRS

COURSE DESCRIPTION

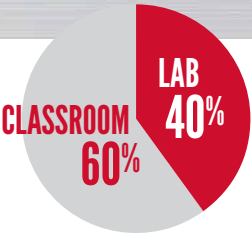
The online course designed to provide a basic introduction of the layout of the various components of an HVAC system utilized in large and small commercial facilities.

OBJECTIVES

- 1. Introduce residential and commercial preventative maintenance
- 2. Learn how to provide effective maintenance processes procedures.

MODULES

- 1. HVAC System Maintenance, Introduction and Airside
 - 2. Chilled Water, Refrigeration and Heat Rejection
- 3. Central Chiller, Fan Coil and Chilled Beam Systems
 - 4. DCOA, Packaged and Variable Refrigerant Flow Systems



ELECTRICAL TROUBLESHOOTING

PRICE PER STUDENT: \$1,200
COURSE TRAINING DURATION:
16 HRS

COURSE DESCRIPTION

This course teaches students how to maintain and troubleshoot electrical equipment and systems. Electrical troubleshooting is an essential skill for any technician who interacts with a variety of electrical devices in mechanical or industrial settings.
Note: This course can be taken on-ground or 100% online

OBJECTIVES

- 1. Introduce students to the basics of electrical troubleshooting and problem identification
- 2. Prepare students to troubleshoot a variety of electrical systems commonly found in industrial settings

MODULES

- 1. Basic Skills for Electrical Troubleshooting
 - 2. Troubleshooting Control Circuits
 - 3. Troubleshooting Motors
 - 4. Troubleshooting Power Distribution
 - 5. Power Quality Problems
- 6. Troubleshooting Lighting Circuits
 - 7. Troubleshooting Programmable Logic Controllers
 - 8. Troubleshooting Variable Frequency Drives (VFDs)
 - 9. Electrical Preventative Maintenance

100% ONLINE

AIR HANDLERS AND ROOF TOP UNITS HIGH EFFICIENCY HVAC SYSTEM MAINTENANCE

PRICE PER STUDENT: \$1,500
COURSE TRAINING DURATION:
20 HRS

COURSE DESCRIPTION

This online course is designed to provide maintenance staff familiarization in common equipment used in todays complex buildings. Students will perform basic functions of troubleshooting teachings.

OBJECTIVES

- 1. Understand maintenance procedures for residential and light commercial HVAC
- 2. Understand effective maintenance procedures step by step
- 3. Unit diagnostic and troubleshooting

MODULES

- 1. Air Handler Maintenance
 - 2. Maintenance of Roof Top Units
- 3. Troubleshooting

IN-PERSON OR ONLINE

OSHA 10 - GENERAL INDUSTRY

PRICE PER STUDENT: \$750
COURSE TRAINING DURATION:
10 HRS

COURSE DESCRIPTION

In this course, instructors will teach the OSHA-approved curriculum on all necessary safety precautions that workers need to take while performing their jobs. OSHA 10 cards will be provided to all students after completing this course. 6 hours of mandatory topics, 2 hours of elective topics, and 2 hours of optional additional topics will be covered.

OBJECTIVES

- 1. Provide OSHA standard training on a range of in field hazards and the key to staying safe
- 2. Gain the widely recognized OSHA 10 certification that is used by leading industry employers

MODULES

MANDATORY

- 1. Introduction to OSHA
- 2. Walking and Working Surfaces
- 3. Exit Routes, Emergency Action Plans, Fire Prevention Plans and Fire Protection

- 4. Electrical Safety
- 5. Personal Protective Equipment
- 6. Hazard Communication

ELECTIVE

- 1. Hazardous Materials
- 2. Materials Handling

- 3. Machine Guarding
- 4. Industrial Hygiene
- 5. Blood borne Pathogens
- 6. Ergonomics
- 7. Safety and Health Program
- 8. Fall Protection

Materials for each topic covered will be provided for you to keep for future reference. The course will be delivered over a 2 day period due to OSHA regulations.

IN-PERSON OR ONLINE

EPA UNIVERSAL PREP

PRICE PER STUDENT: \$1,200
COURSE TRAINING DURATION:
16 HRS

COURSE DESCRIPTION

This online course will prepare students and technicians for all sections of the EPA Section 608 Universal certification. This course is based on the Esco Institute EPA Section 608 Preparatory Manual and contains text, lecture, definitions, and practice questions.

OBJECTIVES

- 1. Prepare students to sucessfully complete EPA examinations for EPA Section 608 Universal Certification

MODULES

- 1. EPA Section 608 - Type I Training
- 2. EPA Section 608 - Type II Training
- 3. EPA Section 608 - Type II Training

(Please note: this is an online preparatory course and does not include the book or examination.)

IN-PERSON OR ONLINE

CONFINED SPACE SAFETY TRAINING

PRICE PER STUDENT: \$450
COURSE TRAINING DURATION:
6 HRS

COURSE DESCRIPTION

This course is designed to give each attendee the information required by OSHA to properly identify and label confined spaces, and then to enter and work safely within them. Confined Space Training verification information will be provided for all attendees.

OBJECTIVES

- 1. Provide the safety related knowledge needed for workers who may encounter confined spaces on the job and gain a certificate of completion of confined space training.

MODULES

- 1. Confined Space Definition and Identification
- 2. Differences Between Permit Required and Non-Permit Required Confined

- Spaces
- 3. Hazard Review and Mitigation Techniques
- 4. Confined Space Entry Plan Development

This course will be delivered entirely in a classroom setting and is available in person or online.

All courses require a minimum of 5 students. If the minimum enrollment is not met, the course can be rescheduled or canceled and students would be notified.

Course list prices are subject to change.

Please check with a StrataSkills representative for current pricing.

CUSTOMIZED TRAINING

StrataSkills offers highly customized training developed to your specifications. Our team will work with you to create training designed to meet to your company's unique needs and then train your workers in those pre-defined concepts.

Our customized training can be built to meet your company's specifications.

Customized training is offered for:

HVAC/R • Welding • Pipefitting • Residential & Commercial Electrical Wiring

Contact us today to learn more about our Customized Training and pricing options.

CUSTOMIZED PROCESS PREPARATION & TESTING TRAINING FOR NEW HIRE ACQUISITION

There are often additional skills needed outside of basic training, or your business requires very specific process qualifications prior to hiring a new employee. StrataSkills can help you with your new hire qualification process. If you are hiring HVAC/R techs, welders, pipefitters, or electricians through Tulsa Welding School (TWS) or The Refrigeration School, Inc. (RSI), we can offer additional training in the process of your choosing for upcoming graduates. If testing is required as part of the training, we will work with you to develop the appropriate evaluations.





StrataSkills.com

Info@StrataSkills.com