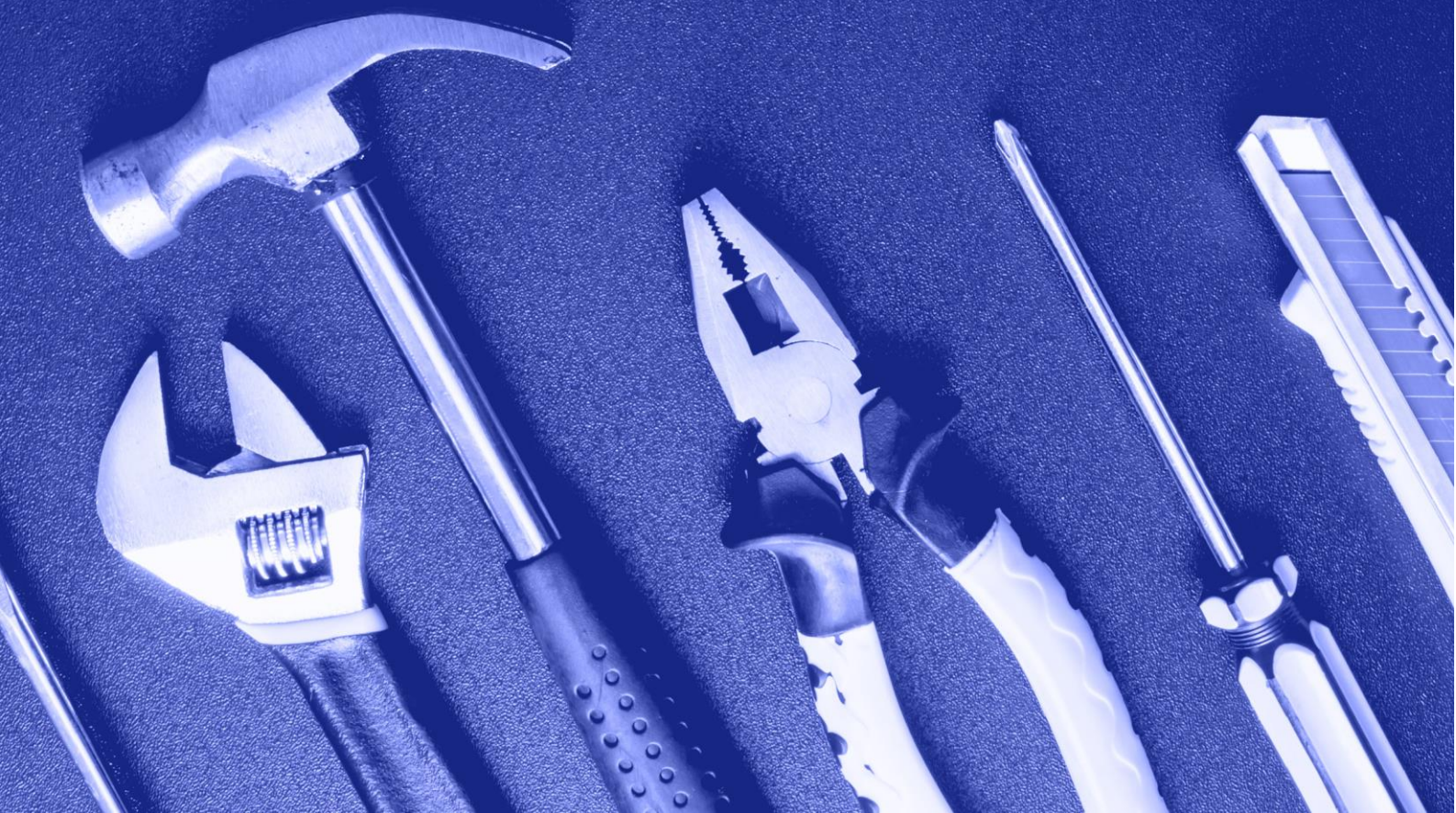


**ACCELERATED  
TRAINING INSTITUTE**



# Welding 101 Course

Instruction Hours .....	22
Study Hours .....	55
Length .....	1 to 12 Months
Modality .....	Self-paced, 100% online





# Welding 101 Course Description

This comprehensive course in welding includes every type of welding from gas welding to ARC and TIG welding. Students will learn from a licensed professional currently working in the field welding safety, tank set up, how to do every type of weld and welding in 2G, 3G and 4G positions. Students will learn the A-Z of welding through demonstration, with up close views of the instruction so they can quickly learn the fine detail of such precision work as how to hold the welding equipment, puddling and cutting in every type of welding operation. Student's study and complete the course at a pace they control, with sufficient retention of the knowledge to pass their exams with a score of 80% or higher.

## Objectives

Upon successful completion, this course results in a Certificate in Welding Theory, preparing an individual for entry-level employment in the welding trade in positions classified under Welder (SOC 51-4121 Idaho Department of Labor).

Additionally, this course prepares individuals for employment in positions involving entry-level welding work classified as "maintenance" under General Maintenance and Repair (SOC 49-9042 Idaho Department of Labor) in position titles such as Maintenance, Maintenance Mechanic, and Facilities Maintenance Technician.

1. Certificates of this School do not qualify an individual to work as a registered or licensed, independent Contractor, nor do they qualify as welding certification. Individuals who complete the Welding course are NOT certified welders.
2. Unless required by an employer, no license, certification, or registration is required for employees working in the welding trade in the state of Idaho. Some states may require welders to be certified in the welds they are performing.
3. All independent contractors are required by Idaho law to be registered with the Idaho Contractors Board, which is a division of the State of Idaho, Bureau of Occupational Licenses (<http://ibol.idaho.gov/IBOL/Home.aspx>). Public works will require an additional Contractor's License. For more information, visit <http://dbs.idaho.gov>.
4. After theoretical training and sufficient practical and/or apprenticeship experiences to competently perform a weld type, welders can seek to become certified. There are several types of certification for welders. An individual should determine which type of welding position they would like to pursue, then meet the certification requirements (if any) of that position. Typically, certification through the American Welding Society involves a welding test and a written exam taken every six months to a year, depending on regional requirements, to keep an individual's certification up to date.

Certification allows a welder to take the title "Certified Welder," opening up a variety of job opportunities. For more information, visit <http://www.aws.org/certification>.

**Equipment and materials used in this course include:** An internet-capable computer, internet connection, web browser, online examinations.

**Instructional Mode:** Distance education not in real time. All instruction is provided via pre-recorded video lessons and online examinations. Lessons occur at a time and location determined by the student.



**Method of Instruction:** This course is taught in pre-recorded video instruction; however, the students can access instructors whenever they have technical questions or need assistance with completing the coursework. Students submit their questions by email to [faculty@atitradeschools.com](mailto:faculty@atitradeschools.com), after which they will receive an email reply and/or a telephone call from a Student Support Specialist.

**Testing and Certificate Requirements:** When you complete the video instruction in the Welding Course, you will take an online examination to test your knowledge. Exams are online, not timed, and are open video. Once started, an online exam may be suspended but must be completed within 60 days. When you pass your final exam with a score of 80% or higher, you will receive a Certificate in Welding Theory.

**Grading System:** Students are graded on a pass/fail basis.

**Passing Grade:** A passing grade is given to a student who achieves a score of 80% or higher on all examinations in the Welding Course.

**Failing Grade:** A failing grade is given to a student who has failed to achieve a score of 80% or higher on all examinations in the Welding Course.

## Welding 101 Course Outline

Lesson	Title
Lesson 1	Introduction
Lesson 2	History
Lesson 3	Safety
Lesson 4	Gas Welding
Lesson 5	Arc Welding - MIG
Lesson 6	Arc Welding - Stick
Lesson 7	Arc Welding - TIG
Lesson 8	TIG Welding – Small Parts
Lesson 9	Welding Symbols
Lesson 10	Projects