

INTRODUCTION TO WELDING & SAFETY

COURSE DESCRIPTION

This is an entry-level course that will teach basic welding skills. The course prepares students to apply technical knowledge and skills in the workplace and project construction. Throughout the course, students will learn and practice the knowledge, attitude, and skills required, including the selection and use of appropriate techniques and equipment with minimum supervision.

COURSE OUTLINE

Module 1: Safety Primer and Welding Overview

- Dive into the essentials of safety protocols and gain an introductory understanding of the welding process.

Module 2: Tool Mastery, Metal Joining, Cutting Techniques, and Print Reading

- Explore tool safety, master metal joining techniques, perfect cutting skills, and delve into the art of print reading.

Module 3: Comprehensive Safety Integration

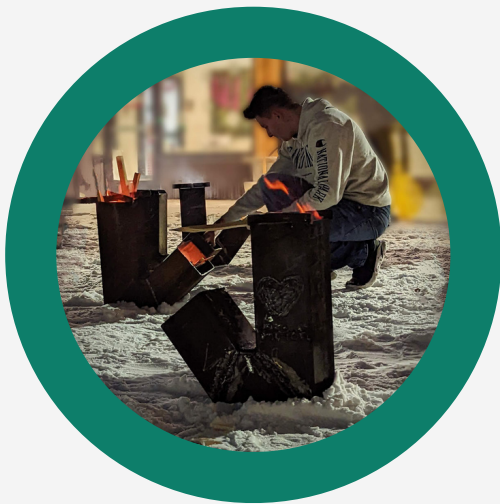
- Focus on electrical safety, reinforce print reading skills, engage in shop math, and initiate hands-on experience by cutting pieces for the Rocket Stove.

Module 4: OSHA 10 Compliance and Rocket Stove Progress

- Cover remaining OSHA 10 requirements while completing the Rocket Stove pieces and transitioning into the assembly phase.

Module 5: OSHA 10 Completion and Assembly Finalization

- Conclude outstanding OSHA 10 requirements, finalize the Rocket Stove pieces, and embark on the assembly process, bringing the project to completion.



GRADE(S)

9-12

LENGTH

3-5 Days

CREDIT

.25 (HS Only)

PREREQUISITES

N/A

CTSO EMBEDDED IN THIS SEQUENCE

SkillsUSA

TECHNICAL SKILLS ASSESMENT (TSA)

- OSHA 10-hour Construction Safety & Health
- OSHA 10-hour General Industry Safety & Health

SOURCE OF STANDARDS

- OSHA 1926 Construction Safety Standards
- AWS D1.1 Welding Standards
- State of Alaska English/Language Arts, Math, Science, Cultural, and Employability Standards



YUKON - KOYUKUK
SCHOOL DISTRICT CTE





INTRODUCTION TO WELDING & SAFETY

WELDING PATHWAY

Career Explorers

Introduction to Welding & Safety

Introduction to Welding Fabrication

Introduction to Wire feed welding

Welding for Industry Certification

Capstone Launch

7-8th
Grade

- CAREER EXPLORERS
- SKILLSUSA

9th
Grade

INTRODUCTION TO WELDING & SAFETY

teach basic welding skills

10th
Grade

- INTRODUCTION TO WELDING FABRICATION
- INTRODUCTION TO WIRE FEED WELDING
- ALUMINUM WIRE FEED WELDING

11th
Grade

- WELDING FOR INDUSTRY CERTIFICATION

12th
Grade

- CAPSTONE LAUNCH

Welding Careers

Military
Career
Advantage

AVTEC
Ready

Union
Apprenticeship
Ready
Starting \$26.95

Work
Ready
Starting
\$25-\$28