Welding

Industry Certifications | License

American Welding Society
- AWS Certification
Oklahoma Career Readiness Certification

Quick Facts

Average Salary: $18.35/hr
Students: Adult & High School
Campus: Drumright & Sapulpa
Times: Morning, Afternoon, Full Day

Scheduling Information

Drumright: 8:25am – 11:15am
12:45pm – 3:35pm 8:25am – 3:35pm
Sapulpa: 8:25am – 11:15am
12:25pm – 3:15pm 8:25am – 3:15pm

High school students attend morning or afternoon. Adults can choose from morning, afternoon or all day. Restrictions apply. Most classes follow the traditional August – May schedule. Ask about classes with controlled entry/exit options.

Entrance Requirements

Enrollment is open to in-district adults and high school juniors and seniors.

Application Process

Applications are available online at www.CentralTech.Edu, on Central Tech campuses and high schools in our district. Return completed application to a Central Tech Recruiter or high school counselor. Additional information may be required.

Financial Aid

Financial aid is defined as any grant, part-time employment, scholarship, or other federally funded program. Students with financial need may be eligible - applies to career majors of 600 hours or more. Central Tech Federal School Code: 009964 Application for Federal Student Aid (FAFSA) www.fafsa.ed.gov.

College Connection

Get specific college connection information by contacting the college credit advisor.

Career Majors

Estimated Tuition Books & Fees

Combination Welder
This major will teach students to do quality welding for a variety of construction and manufacturing jobs using multiple structural welding techniques. Instruction will cover welding theory and safety, fabrication, layout, print reading, symbols, math, welding codes, metal characteristics/properties and oxy-fuel cutting. Students will learn to perform high quality welds in accordance with welding procedure specifications used in a variety of welding occupations. They will also gain an introduction to pipe welding, using SMAW, FCAW, GMAW, and GTAW techniques.

Class time by hours | 1050 clock hours
90 INTRODUCTION TO WELDING & CUTTING PROCESSES
30 WELDING DETAIL DRAWINGS
30 METAL CHARACTERISTICS & PROPERTIES
30 METAL PREPARATION & HEAT TREATMENTS
15 WELDING BLUEPRINTS
15 WELDING JOINT FIT-UP & ADJUSTMENT
15 WELD QUALITY
60 GMAW PLATE
15 GMAW/FCAW EQUIPMENT & SETUP
60 GTAW PLATE
15 GTAW EQUIPMENT & FILLER MATERIALS
45 GTAW ALUMINUM PLATE
90 GTAW CARBON STEEL PIPE
15 SMAW EQUIPMENT & SETUP
15 SMAW ELECTRODES
120 SMAW BEADS & FILLER WELDS
120 SMAW OPEN V-GROOVE WELDS
105 SMAW OPEN ROOT PIPE WELDS
60 FCAW PLATE
45 FCAW PIPE
15 AIR CARBON ARC CUTTING & GOUGING
15 PLASMA ARC CUTTING
30 WORKFORCE STAGING

Tuition: $1575 | Fees: $137 | Books & Supplies: $626 | Cost: $2338

Cutting Processes Technician
This career major is designed to cover the basics of oxy-fuel and plasma arc cutting, metal preparation and heat treatment, and air carbon arc gouging. Students cover safety, amperage, gas pressure, flow rate and cutting methods for piercing, slotting, squaring and beveling metals while using detailed drawings and learning the fundamentals of all cutting processes.

Class time by hours | 180 clock hours
30 FUNDAMENTALS OF CUTTING PROCESSES
30 WELDING DETAIL DRAWINGS
30 METAL PREPARATION & HEAT TREATMENTS
15 PLASMA ARC WELDING

Tuition: $270 | Fees: $137 | Books & Supplies: $505 | Cost: $912

Entry Level Welder
This major prepares students to do the very basic welding position welds and plate and pipe welds. Student will learn SMAW, GMAW, FCAW and GTAW processes at an intermediate level.

Class time by hours | 525 clock hours
90 INTRODUCTION TO WELDING & CUTTING PROCESSES
15 GMAW/FCAW EQUIPMENT & SETUP
30 METAL CHARACTERISTICS & PROPERTIES
60 FCAW PLATE/PIPE
15 AIR CARBON ARC CUTTING & GOUGING
15 PLASMA ARC CUTTING
15 WELDING BLUEPRINTS
15 WELDING JOINT FIT-UP & ADJUSTMENT
15 GTAW EQUIPMENT & FILLER MATERIALS
60 GTAW PLATE
15 SMAW ELECTRODES
15 SMAW EQUIPMENT & SETUP
120 SMAW BEADS & FILLER WELDS
45 WELDING DETAIL DRAWINGS II

Tuition: $787.50 | Fees: $137 | Books & Supplies: $626 | Cost: $1550.50

Structural & Pipe Welder
This major prepares students to do quality pipe and structural welding in construction or in the petroleum industry. Instruction includes welding theory, fabrication, layout, print reading, welding symbols, math and welding codes with specialized instruction in Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), and Gas tungsten Arc Welding (TIG) techniques. This major offers specialized preparation for both structural and pipe certification by the American Welding Society (AWS).

Class time by hours | 1425 clock hours
30 FUNDAMENTALS OF WELDING
30 WELDING DETAIL DRAWINGS
30 METAL CHARACTERISTICS & PROPERTIES
30 METAL PREPARATION & HEAT TREATMENTS
30 FUNDAMENTALS OF CUTTING PROCESSES
30 OXY-FUEL CUTTING
15 GMAW/FCAW EQUIPMENT & SETUP
15 GTAW EQUIPMENT & FILLER MATERIALS
15 SMAW EQUIPMENT & SETUP
15 SMAW ELECTRODES
15 WELDING JOINT FIT-UP & ADJUSTMENT
15 WELDING BLUEPRINTS
15 WELD QUALITY
30 WORKFORCE STAGING
15 WELD QUALITY
Welding

Structural & Pipe Welder (con't)
60 GMAW PLATE
60 GMAW PIPE
45 GMAW ALUMINUM PIPE & PLATE
60 GTAW PLATE
45 GTAW ALUMINUM PLATE
90 GTAW CARBON STEEL PIPE
90 GTAW LOW ALLOY & STAINLESS STEEL PIPE
75 GTAW ALUMINUM PIPE
60 FCAW PLATE
45 FCAW PIPE
120 SMAW BEADS & FILLET WELDS
30 SMAW GROOVE WELDS WITH BACKING
120 SMAW OPEN V-GROOVE WELDS
105 SMAW OPEN ROOT PIPE WELDS
75 SMAW STAINLESS STEEL GROOVE & PIPE WELDS
15 AIR CARBON ARC CUTTING & GOUGING
15 PLASMA ARC CUTTING
30 WORKFORCE STAGING

Tuition: $2137.50 | Fees: $137 | Books & Supplies: $626 | Cost: $2900.50

Welder/Fitter (con't)
60 GMAW PIPE
90 GTAW LOW ALLOY & STAINLESS STEEL PIPE
30 WORKFORCE STAGING

Tuition: $1575 | Fees: $137 | Books & Supplies: $626 | Cost: $2338

*Career Major costs are subject to change.

Welder/Fitter
This career major is an introduction to common welding processes and precision metal fabrication. Students will be introduced to Gas Tungsten Arc Welding (GTAW), Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), and Flux Core Arc Welding (FCAW). Students will also be introduced to blueprint reading and construction of items according to specifications. Additional areas covered include development of layout and the sequence of operations for fabricating and assembling metal products. Students will be instructed in the proper processing in fitting materials together and how to test the strength of the welds.

Class time by hours | 1050 clock hours
90 INTRODUCTION TO WELDING & CUTTING PROCESSES
15 GMAW/FCAW EQUIPMENT & SETUP
30 METAL CHARACTERISTICS & PROPERTIES
60 FCAW PLATE/PIPE
15 AIR CARBON ARC CUTTING & GOUGING
15 PLASMA ARC CUTTING
15 WELDING BLUEPRINTS
15 WELDING JOINT FIT-UP & ADJUSTMENT
15 GTAW EQUIPMENT & FILLER MATERIALS
60 GTAW PLATE
15 SMAW ELECTRODES
15 SMAW EQUIPMENT & SETUP
120 SMAW BEADS & FILLET WELDS
45 WELDING DETAIL DRAWINGS II
45 GTAW ALUMINUM PLATE
90 GTAW CARBON STEEL PIPE
75 MITERING, SADDLING and BRANCHING OF PIPE
105 SMAW OPEN ROOT PIPE WELDS
30 METAL PREPARATION & HEAT TREATMENTS