



Mr. Pat Connelly
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Student Organization:
 SkillsUSA

WELDING TECHNOLOGY



REQUIRED COURSES:

CODE:	DESCRIPTION:
176009	Pre-Engineering Technology
176000	Gas Metal Arc Welding
176001	Shield Metal Arc Welding
176002	Flux Core Arc Welding
176003	Gas Tungsten Arc Welding

GRADUATION SEALS AVAILABLE:

Industry Recognized Credential Seal
 Earn 12 Points worth of IRC's

Technology Seal

Pass two Microsoft Office Certification Exams

Ohio Means Job Readiness Seal

[Complete OMJ Readiness Seal Validation Form](#)

First Year: (3 Credits) Periods 1,2,3

The Welding Technology program will teach students the fundamentals of welding, the most common way of permanently joining metal parts, and the processes used to fabricate metal. Students will receive training in gas, arc, fluxcore and MIG and TIG welding. Along with blueprint reading and welding symbols, students will also learn how to use a grinder, drill, plasma arc cutter, burning torch, arc welding machines and more..

Second Year: (3 Credits) Periods 6,7,8

During the senior year of this course, students will utilize Lincoln Electric's cutting edge ULink curriculum. Students will gain experience with state-of-the-art equipment such as the Torchmate CNC cutting system and training utilizing the VRTEX 360 welding simulator and water table software. Students will prepare for the welding certifications.



SCAN

PROGRAM VIDEO

WWW.PARMACITYSCHOOLS.ORG/CAREERTECH

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INDUSTRY RECOGNIZED CREDENTIAL (IRC) OPPORTUNITIES:

INDUSTRY CREDENTIAL	VENDOR/PROVIDER	IRC POINTS
Certified Welder GMAW	American Welding Society (Lincoln Electric)	12
Qualified Welder GMAW	American Welding Society (Total Quality)	9
Qualified Welder SMAW	American Welding Society (Total Quality)	9
Qualified Welder FCAW	American Welding Society (Total Quality)	9
Qualified Welder GTAW	American Welding Society (Total Quality)	9

TRANSCRIPTED IN-STATE TRANSFERABLE CREDIT OPPORTUNITIES:

COLLEGE/UNIVERSITY	DEGREE/COURSES	POTENTIAL CREDITS
Cuyahoga Community College	ISET 1100 Welding Print Reading	2
Cuyahoga Community College	ISET 2120 Stick Welding	4
OHE ITAG	SMAW	4-6
OHE ITAG	GTAW	4-6
OHE ITAG	GMAW	4-6

ARTICULATION AGREEMENTS:

COLLEGE/UNIVERSITY	DEGREE/COURSES	POTENTIAL CREDITS
University of Akron	Associates of Technical Studies - Block Technical Credit	30

WELDING TECHNOLOGY



Required Courses:

Ohio Department of Education required courses taught within the career-technical program.

Industry-Recognized Credential (IRC) Opportunities:

Each Ohio Department of Education approved industry-recognized credential has been assessed a point value based on employer demand and other factors to allow students the opportunity to bundle credentials for graduation. Career-technical education credentials primarily reflect education, industry licenses, industry certificates and postsecondary degrees.

Transcribed In-State Transferable Credit/CTAGs:

Alignment between secondary and postsecondary career-technical education content. Earned college credits are transferable to Ohio public institutions of higher education (OHE).

Articulation/Bilateral Agreements and Opportunities:

A partnership between institutions (PCSD and colleges/universities) to recognize credits which will be accepted when a student enrolls into a college or university to pursue a specific degree program.

[OHIO HIGHER EDUCATION CREDIT TRANSFER TOOL](#)

CTAG transferable credits are earned through career technical WebXam assessments (See **REQUIRED COURSES on the first page) and are alignments between secondary (high school) and postsecondary (e.g., college) institutions.**

The postsecondary institution retrieves and verifies data if the students check the box on their WebXam(s) giving consent. Support for acquiring CTAGs varies at postsecondary institutions. Students should notify the postsecondary institutions of their available CTAG transferable credits.

STEP 1: Pass PCSD Career Tech Program WebXam(s) and ensure the box at the end of the exam is checked allowing Ohio institutions to obtain score(s).

STEP 2: Contact postsecondary counselor and inform them of the CTAG transferable credits in the following areas:

No Ohio Higher Education CTAG Agreements for this Pathway

STEP 3: Notify the postsecondary Registrar's office, Tech Prep office, or department chair as applicable.