



2016 – 2017 INDUSTRY, MANUFACTURING &



CONSTRUCTION META-MAJOR

APPLIED WELDING TECHNOLOGIES, PSAV CERTIFICATE

Meta-majors are academic pathways to help you meet your educational goals. By successfully completing the program, students are eligible to receive an industry-recognized certificate, sit for American Welding Society (AWS) exams and receive an OSHA 1926 Safety card. The program is also aligned with industry-recognized certifications provided by the National Center for Construction Education and Research (NCCER) and the American Welding Society.

Admission Requirements: Standard high school diploma or GED diploma. Must be at least 17 years of age, and must turn 18 years of age before achieving OCP A-Welder, Helper in order to be eligible for hire by industry. Students must take the Test of Adult Basic Education (TABE) within the first semester of enrollment in the program or present evidence of allowable substitute. (Learn more.) In order to successfully complete the program, students must earn a score of 9.0 or higher in all three areas of the TABE (mathematics, language, reading). While you may not be a full-time student, you are responsible for completing the “Mandatory Hourly Requirements” on the right.

COURSE RECOMMENDATIONS ARE BASED ON GENERAL COURSE REQUIREMENTS.

SAMPLE FULLTIME SCHEDULE

MANDATORY HOURLY REQUIREMENT

TERM 1	Courses
Required Course	PMT0106
Required Course	PMT0112
Required Course	PMT0121
Required Course	PMT0126
TOTAL SEMESTER CLOCK HOURS	340 HOURS
COMPLETED HOURS	340 HOURS

By 340 Completed Clock Hours
Does not count toward A.A. or A.S. degree
Overall 2.0 TCC GPA or higher to graduate

TERM 2	Courses
Required Course	PMT0122
Required Course	PMT0130
Required Course	PMT0134
Required Course	PMT0164
TOTAL SEMESTER CLOCK HOURS	285 HOURS
COMPLETED CLOCK HOURS	625 HOURS

By 625 Completed Clock Hours
Does not count toward A.A. or A.S. degree
Overall 2.0 TCC GPA or higher to graduate

TERM 3	Courses
Required Course	PMT0138
Required Course	PMT0145
Required Course	PMT0131
TOTAL SEMESTER CLOCK HOURS	275 HOURS
COMPLETED CLOCK HOURS	900 HOURS

By 900 Completed Clock Hours
Does not count toward A.A. or A.S. degree
Overall 2.0 TCC GPA or higher to graduate
25% credit hours earned at TCC

*Please refer to the [TCC Catalog](#) for specific courses that meet this requirement.

Important Things to Know:

- *Developmental Education courses are not included in this plan.*

MAJORS & OCCUPATIONS IN THE INDUSTRY, MANUFACTURING, & CONSTRUCTION META-MAJOR

MAJOR	OCCUPATION(S)	SUGGESTED ACADEMIC DEGREE(S)/LEVELS
Building Construction Management	Foreman	AS, B
	Assistant Superintendent	AS, B
	Estimator	AS, B
	Building Inspector	AS, B
	Expeditor	AS, B
Drafting and Design Technology	Drafter	AS
	Computer-aided Design (CAD) Technician	AS
	CAD Specialist	AS
	Geographic Information System (GIS) Technician	AS
	Assistant Surveyor	AS
Engineering Technology	Industrial Machinery Mechanic	AS
	General/Operations Manager	AS
	Production/Operations Worker/Supervisor	AS
	Supervisor of Mechanics	AS
	Installer/Repairer	AS
Operations and Construction Management	Operations Analyst/Manager	B, M
	Productions Planner	B, M
	Logistics Specialist	B, M
	Distribution Analyst/Manager	B, M
	Inventory Control Analyst/Manager	B, M
Aeronautics	Aircraft Crew Member	B, M
	Airport Management	B, M
	Air Traffic Controller	B, M
	Accident Investigation/Prevention Worker	B, M
	Aircraft Manufacturing Technician	B, M
Aviation Business Administration	Aviation Team Leader	B, M
	Aviation Dispatcher	B, M
	Aviation Accountant	B, M
	Aviation Training Instructor	B, M
	Aviation Technician	B, M
Aviation Maintenance	Aviation Customer Service Rep.	B, M
	Aviation Development Engineer	B, M
	Hydraulic and Systems Designer	B, M
	Manufacturing Engineer	B, M
	Technical Writer	B, M
Computer Numerical Control (CNC) Machinist	Front-line Supervisor of Production Workers	C
	CNC Operator	C
	Machinist	C
	Lathe Operator	C
	Custom Shop Worker	C
Applied Welding Technologies	Aluminum Welder	C
	Fabricator	C
	Fitter/Welder	C
	Brazer	C
	Solderer	C
Heating, Ventilation, and Air Conditioning (HVAC)	A/C, Refrigeration & Heating Helper	C
	A/C, Refrigeration & Heating Mechanic	C
	A/C, Refrigeration & Heating Mechanic Assistant	C
	A/C, Refrigeration & Heating Technician	C
	Refrigeration Technician	C

- C Certificate
- AS Associate in Science Degree
- B Bachelor's Degree
- M Master's Degree
- D Doctorate

**This sheet has sample majors & occupations associated with this meta-major. Some of these options may require additional training and career planning. You are not limited to these options when choosing a possible career path.*