

Manufacturing Career Cluster

Applied Welding Technology

	Secondary	PSAV
Program Number:	8754500	I480500
Program Length	8 Credits	1170 Hours
Basic Skills:		Math 9 Language 9 Reading 9

The purpose of this program is to prepare students for employment or advanced training in a variety of occupations in the welding industry.

This program focuses on broad, transferable skills and stresses understanding and demonstration of the following elements of the Welding industry; planning, management, finance, technical and product skills, underlying principles of technology, labor issues, community issues and health, safety, and environmental issues.

This program is a planned sequence of instruction consisting of six occupational completion points as follows: (1) Welder Helper, (2) Welder, Shielded Metal Arc, (3) Welder, Gas-Metal Arc, (4) Welder, Flux Cored Arc, (5) Welder, Gas Tungsten Arc, (6) Welder, Pipe. When the recommended sequence is followed, the structure will allow students to complete specified portions of the program for employment or to remain for advanced training. A student who completes the applicable competencies at any occupational completion point may either continue with the training or become an occupational completer.

The content includes, but is not limited to, leadership, communication skills, human relations and employability skills, safe and efficient work practices, use of cutting and/or welding processes to fabricate parts, according to shop drawings or written specifications.

Listed below are the courses that comprise this program when offered at the secondary level:

OCP	Course Number	Course Title	Course Length
A	8754510	Welding Technologies - 1	1 credit
	8754520	Welding Technologies - 2	1 credit
B	8754530	Welding Technologies – 3	1 credit
	8754540	Welding Technologies – 4	1 credit
C	8754550	Welding Technologies - 5	1 credit
D	8754560	Welding Technologies - 6	1 credit
E	8754570	Welding Technologies - 7	1 credit
F	8754580	Welding Technologies - 8	1 credit

The following table indicates the PSAV program structure:

OCP	Course Number	Course Title	Course Length
A	PMT0011	Welder Helper	250
B	PMT0012	Welder, Shielded Metal Arc	250
C	PMT0013	Welder, Gas Metal Arc	125
D	PMT0014	Welder, Flux Cored Arc	100
E	PMT0015	Welder, Gas Tungsten Arc	175
F	PMT0016	Welder, Pipe	270

In accordance with Rule 6A-10.040, FAC, the minimum basic-skills grade levels required for adult vocational students to exit this program are: Mathematics 9.0, Language 9.0, Reading 9.0. These grade-level numbers correspond to grade-equivalent scores obtained on the Test of Adult Basic Education (TABE). If a student does not meet the basic-skills level required for completion of the program, remediation should be provided concurrently through Vocational Preparatory Instruction (VPI).