

Course Number	Course Name	Credits	Henry Ford College		
			Welding Certificate Basic *	Welding Certificate Advanced **	AAS Welding ***
CIMWD 100	Weld Joint Design and Preparation - Safety / Joint Design	1	x	x	x
CIMWD 101	Weld Joint Design and Preparation - Welding Code / Weld Measurement / Hand Tools	1	x	x	x
CIMWD 102	Weld Joint Design and Preparation - Material Cutting, Grinding, and Fabrication	1	x	x	x
CIMWD 110	Shielded Metal Arc Welding - Flat and Horizontal Welding	1	x	x	x
CIMWD 111	Shielded Metal Arc Welding - Vertical Welding	1	x	x	x
CIMWD 112	Shielded Metal Arc Welding - Overhead Welding	1	x	x	x
CIMWD 120	Gas Tungsten Arc Welding - Safety and Technology	1	x	x	x
CIMWD 121	Gas Tungsten Arc Welding - Steel and Stainless Steel - Flat and Horizontal	1	x	x	x
CIMWD 122	Gas Tungsten Arc Welding - Steel and Stainless Steel - Vertical	1	x	x	x
CIMWD-123	Gas Tungsten Arc Welding (Aluminum)	1	x	x	x
CIMWD 130	Gas Metal Arc Welding - Flat and Horizontal	1	x	x	x
CIMWD 131	Gas Metal Arc Welding - Vertical and Overhead	1	x	x	x
CIMWD-140	Weld Metallurgy (Ferrous Metals)	1		x	x
CIMWD-141	Weld Metallurgy (Non-Ferrous Metals)	1		x	x
CIMWD-142	Weld Metallurgy (Weld Testing)	1		x	x
CIMWD 210	Pipe Welding - 2G and 5G Welding	1		x	x
CIMWD 211	Pipe Welding - 6G Welding	1		x	x
CIMWD 212	Pipe Welding - Socket and Flange Welding	1		x	x
CIMWD 220	Tool and Die Welding - Technology	1		x	x
CIMWD 221	Tool and Die Welding - GTAW	1		x	x
CIMWD 222	Tool and Die Welding - SMAW	1		x	x
CIMWD-230	Shielded Metal Arc Welding AWS Certification (Preparation and Practice)	1		/	x
CIMWD-231	Shielded Metal Arc Welding AWS Certification (Practical)	1		/	x
CIMWD-240	Gas Tungsten Arc Welding AWS Certification (Preparation and Practice)	1		/	x
CIMWD-241	Gas Tungsten Arc Welding AWS Certification (Practical)	1		/	x
CIMWD-250	Gas Metal Arc Welding AWS Certification (Preparation and Practice)	1		/	x
CIMWD-251	Gas Metal Arc Welding AWS Certification (Practical)	1		/	x
CIMWD-260	Welding Fabrication Project (Planning and Design)	1			x
CIMWD-261	Welding Fabrication Project (Fabricate)	1			x
CIMWD-262	Welding Fabrication Project (Assembly)	1			x
Total Required Welding Credits			12	23	30

Key	
x	Required Course
/	Optional Welding Elective

** Additional non-welding certificate requirements can be found at HFC's website, here <https://www.hfcc.edu/catalog/programs/2699>
 ** Additional non-welding certificate requirements can be found at HFC's website, here <https://www.hfcc.edu/catalog/programs/2698>
 *** Additional (non-Welding) degree requirements can be found at HFC's website, here <https://www.hfcc.edu/catalog/programs/4043>



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M-SAMC resources reflect a shared understanding of grant partners at the time of development. In keeping with our industry and college partner requirements, our products are continuously improved. Updated versions of our work can be found here: <http://www.msamc.org/resources.html>.

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