

WELDING - SMAW WORKFORCE TRAINING CERTIFICATE

Program website (<https://frederick.edu/programs/skilled-trades/welding.aspx>)

Program Manager: Construction & Applied Technologies Institute (CATI)

Email: CATI@frederick.edu (closchiavo@frederick.edu)

Phone: 240.629.7912

Program Description

This series of courses provides students with a broad range of knowledge and skills needed for welding and cutting metal, with a focus on Shielded Metal Arc Welding (SMAW). Topics include basic metallurgy, electrode selection, welding symbols and blueprint reading, and setting equipment parameters. Students will have the opportunity to earn a 2G and 3G Structural Steel qualification.

Program Requirements

Code	Title	Credits
Required Course/s		
WLD 160	Introduction to Welding	
WLD 172	Welding Symbols and Blueprint Reading	
WLD 161	Advanced Welding: SMAW	
Prerequisites/Co-requisites		
ENGL 70	Introduction to College Reading and Writing	
or ENGL 75	Reading and Writing in the Academic Disciplines	
or ESOL 100	English for Academic Purposes	
or ESOL 70 (DISC)		
or ESOL 72 (DISC)		