

Welding Program Outcomes Crosswalk and 7-Year Assessment Plan

- IO1 **Communication:** Students will be able to communicate clearly and effectively within a workplace context
- IO2 **Quantitative Reasoning:** Students will be able to reason mathematically using methods appropriate to the profession
- IO3 **Human Relations/Workplace Skills:** Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills
- PO4 Students will be able to demonstrate safe shop practice by safely using tools and equipment
- PO5 Students will be able to demonstrate competent cutting procedures and welds to appropriate welding codes.
- PO6 Students will be able to diagnose and cure common welding defects

WLD PROGRAM OUTCOME AND COURSE CROSSWALK							
Course #	Course Name	IO1	IO2	IO3	PO4	PO5	PO6
WLD 101	OXY ACETYLENE WELD AUTO				X	X	X
WLD 102	ARC/GMAW WELD AUTO				X	X	X
WLD 103	BEG AMT WELD				X	X	X
WLD 110	WELD THEORY I						
WLD 111	WELDING PROCESS I				X	X	X
WLD 112	THERMAL CUTTING WELDING				X	X	X
WLD 120	WELD THEORY II						
WLD 121	WELD PROCESS II				X	X	X
WLD 122	GAS METAL ARC WELD I				X	X	X
WLD 130	WELD THEORY III						
WLD 131	WELD PROCESS III				X	X	X
WLD 132	GA TUNGSTEN ARC WELD I				X	X	X
WLD 151	TECH DRAWING INTERPRETATION				X	X	X
WLD 152	WELD LAYOUT I				X	X	X
WLD 153	WELD LAYOUT II				X	X	X
WLD190/290	SKILL IMPROVEMENT				X	X	X
WLD 205	WELD TESTING METHODS				X	X	X
WLD 206	WELD CODES/STANDARDS				X	X	X
WLD 207	WELD METALLURGY						

WLD PROGRAM OUTCOME AND COURSE CROSSWALK							
Course #	Course Name	IO1	IO2	IO3	PO4	PO5	PO6
WLD 212	GAS METAL ARC WELD II				X	X	X
WLD 241	STRUCTURAL WELD PROCESS I				X	X	X
WLD 242	STRUCTURAL WELD I				X	X	X
WLD 243	STRUCTURAL WELD II				X	X	X
WLD 244	SUBMERGED ARC WELD				X	X	X
WLD 245	STRUCTURAL WELD III				X	X	X
WLD 262	PRODUCTION WELD I				X	X	X
WLD 263	PRODUCTION WELD II				X	X	X
WLD 264	ADVANCED WELD PROCESS				X	X	X
WLD 265	PRODUCTION WELD PROCESS III				X	X	X
WLD 281	PIPE WELD I				X	X	X
WLD 282	GAS TUNGSTEN ARC WELD II TIG				X	X	X
WLD 283	PIPE WELD II				X	X	X
WLD 284	GAS TUNGSTEN ARC WELD III TIG				X	X	X
WLD 285	PIPE WELD III				X	X	X
WLD 295/7	WORK-BASED LEARNING				X	X	X
BUS 120	HUMAN RELATIONS			X			
CMST 100	HUMAN COMMUNICATIONS	X					
ENGL 109	APPLIED TECH WRITING	X					
MAP101/117	APPLIED MATH		X				

WLD 7-YEAR ASSESSMENT PLAN								
Course #	Course	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
WLD 101	OXY ACETYLENE WELD AUTO				PO 4	PO 5	PO 6	
WLD 102	ARC/GMAW WELD AUTO				PO 4	PO 5	PO 6	
WLD 103	BEG AMT WELD				PO 4	PO 5	PO 6	
WLD 110	WELD THEORY I				PO 4	PO 5	PO 6	
WLD 111	WELDING PROCESS I				PO 4	PO 5	PO 6	
WLD 112	THERMAL CUTTING WELDING				PO 4	PO 5	PO 6	
WLD 120	WELD THEORY II				PO 4	PO 5	PO 6	
WLD 121	WELD PROCESS II				PO 4	PO 5	PO 6	

WLD 7-YEAR ASSESSMENT PLAN								
Course #	Course	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
WLD 122	GAS METAL ARC WELD I				PO 4	PO 5	PO 6	
WLD 130	WELD THEORY III				PO 4	PO 5	PO 6	
WLD 131	WELD PROCESS III				PO 4	PO 5	PO 6	
WLD 132	GA TUNGSTEN ARC WELD I				PO 4	PO 5	PO 6	
WLD 151	TECH DRAWING INTERPRETATION				PO 4	PO 5	PO 6	
WLD 152	WELD LAYOUT I				PO 4	PO 5	PO 6	
WLD 153	WELD LAYOUT II				PO 4	PO 5	PO 6	
WLD190/290	SKILL IMPROVEMENT				PO 4	PO 5	PO 6	
WLD 205	WELD TESTING METHODS				PO 4	PO 5	PO 6	
WLD 206	WELD CODES/STANDARDS				PO 4	PO 5	PO 6	
WLD 207	WELD METALLURGY				PO 4	PO 5	PO 6	
WLD 212	GAS METAL ARC WELD II				PO 4	PO 5	PO 6	
WLD 241	STRUCTURAL WELD PROCESS I				PO 4	PO 5	PO 6	
WLD 242	STRUCTURAL WELD I				PO 4	PO 5	PO 6	
WLD 243	STRUCTURAL WELD II				PO 4	PO 5	PO 6	
WLD 244	SUBMERGED ARC WELD				PO 4	PO 5	PO 6	
WLD 245	STRUCTURAL WELD III				PO 4	PO 5	PO 6	
WLD 262	PRODUCTION WELD I				PO 4	PO 5	PO 6	
WLD 263	PRODUCTION WELD II				PO 4	PO 5	PO 6	
WLD 264	ADVANCED WELD PROCESS				PO 4	PO 5	PO 6	
WLD 265	PRODUCTION WELD PROCESS III				PO 4	PO 5	PO 6	
WLD 281	PIPE WELD I				PO 4	PO 5	PO 6	
WLD 282	GAS TUNGSTEN ARC WELD II TIG				PO 4	PO 5	PO 6	
WLD 283	PIPE WELD II				PO 4	PO 5	PO 6	
WLD 284	GAS TUNGSTEN ARC WELD III TIG				PO 4	PO 5	PO 6	
WLD 285	PIPE WELD III				PO 4	PO 5	PO 6	
WLD 295/7	WORK-BASED LEARNING				PO 4	PO 5	PO 6	
BUS 120	HUMAN RELATIONS			IO 3				
CMST 100	HUMAN COMMUNICATIONS	IO 1					IO 1	
ENGL 109	APPLIED TECH WRITING	IO 1					IO 1	
MAP101/117	APPLIED MATH		IO 2					IO 2