Program Outcomes	Courses Aligned to Outcomes	Academic Reporting Year (e.g., 2021-2022)
PO2. Demonstrate measuring methods and apply mathematical concepts to solve problems related		
to welding. PO2. Demonstrate measuring methods and apply mathematical concepts to solve problems related	WLDG 110	21-22
to welding.	WLDG 111	21-22
PO2. Demonstrate measuring methods and apply mathematical concepts to solve problems related		
to welding.	WLDG 145	21-22
PO2. Demonstrate measuring methods and apply mathematical concepts to solve problems related to welding.	M191B	21-22
PO2. Demonstrate measuring methods and apply mathematical concepts to solve problems related	-	
to welding.	WLDG 130	21-22
PO3. Demonstrate the ability to follow industry safety practices. PO3. Demonstrate the ability to follow industry safety practices.	WLDG 100 WLDG 110	21-22 21-22
PO3. Demonstrate the ability to follow industry safety practices.	WLDG 110 WLDG 111	21-22
PO3. Demonstrate the ability to follow industry safety practices.	WLDG 120	21-22
PO3. Demonstrate the ability to follow industry safety practices.	WLDG 121	21-22
PO3. Demonstrate the ability to follow industry safety practices. PO3. Demonstrate the ability to follow industry safety practices.	WLDG 185 WLDG 280	21-22 21-22
PO3. Demonstrate the ability to follow industry safety practices. PO3. Demonstrate the ability to follow industry safety practices.	WLDG 280	21-22
PO4. Demonstrate industry work ethic and professionalism.	WLDG 298	21-22
PO4. Demonstrate industry work ethic and professionalism.	BGEN 105	21-22
POS. Demonstrate basic knowledge about AWS (American Welding Society) D1.1, API (American		
Petroleum Institute) 1104, and ASME (American Society of Mechanical Engineers) Section IX welding codes with the ability to pass a welder qualification test in multiple processes according to these		
codes.	WLDG 120	22-23
PO5. Demonstrate basic knowledge about AWS (American Welding Society) D1.1, API (American		
Petroleum Institute) 1104, and ASME (American Society of Mechanical Engineers) Section IX welding		
codes with the ability to pass a welder qualification test in multiple processes according to these codes.	WLDG 121	22-23
PO5. Demonstrate basic knowledge about AWS (American Welding Society) D1.1, API (American		
Petroleum Institute) 1104, and ASME (American Society of Mechanical Engineers) Section IX welding		
codes with the ability to pass a welder qualification test in multiple processes according to these	WIDC 10E	22.22
Codes. DOS Demonstrate hasis knowledge about AWC (American Welding Society) D1 1 ABI (American	WLDG 185	22-23
POS. Demonstrate basic knowledge about AWS (American Welding Society) D1.1, API (American Petroleum Institute) 1104, and ASME (American Society of Mechanical Engineers) Section IX welding		
codes with the ability to pass a welder qualification test in multiple processes according to these		
codes.	WLDG 212	22-23
POS. Demonstrate basic knowledge about AWS (American Welding Society) D1.1, API (American Petroleum Institute) 1104, and ASME (American Society of Mechanical Engineers) Section IX welding		
codes with the ability to pass a welder qualification test in multiple processes according to these		
codes.	WLDG 280	22-23
PO5. Demonstrate basic knowledge about AWS (American Welding Society) D1.1, API (American		
Petroleum Institute) 1104, and ASME (American Society of Mechanical Engineers) Section IX welding codes with the ability to pass a welder qualification test in multiple processes according to these		
codes.	WLDG 237	22-23
PO5. Demonstrate basic knowledge about AWS (American Welding Society) D1.1, API (American		
Petroleum Institute) 1104, and ASME (American Society of Mechanical Engineers) Section IX welding codes with the ability to pass a welder qualification test in multiple processes according to these		
codes.	WLDG 281	22-23
PO6. Troubleshoot and critically think through problems with welding systems and processes.	WLDG 110	22-23
PO6. Troubleshoot and critically think through problems with welding systems and processes.	WLDG 121	22-23
PO6. Troubleshoot and critically think through problems with welding systems and processes. PO6. Troubleshoot and critically think through problems with welding systems and processes.	WLDG 209 WLDG 212	22-23 22-23
PO6. Troubleshoot and critically think through problems with welding systems and processes.	WLDG 237	22-23
PO6. Troubleshoot and critically think through problems with welding systems and processes.	WLDG 245	22-23
PO7. Demonstrate the ability to produce welds that meet visual inspection criteria based on AWS		
codes and industry standards in all positions on the five basic joint configurations with carbon steel, stainless steel, and aluminum, using Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding		
(SMAW), Flux Core Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW).	WLDG 100	22-23
PO7. Demonstrate the ability to produce welds that meet visual inspection criteria based on AWS		
codes and industry standards in all positions on the five basic joint configurations with carbon steel,		
stainless steel, and aluminum, using Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding (SMAW), Flux Core Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW).	WLDG 110	22-23
PO7. Demonstrate the ability to produce welds that meet visual inspection criteria based on AWS		
codes and industry standards in all positions on the five basic joint configurations with carbon steel,		
stainless steel, and aluminum, using Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding (SMAW), Flux Core Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW).	WLDG 111	22-23
PO7. Demonstrate the ability to produce welds that meet visual inspection criteria based on AWS		
codes and industry standards in all positions on the five basic joint configurations with carbon steel,		
stainless steel, and aluminum, using Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding	WIDC 120	22.22
(SMAW), Flux Core Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW). PO7. Demonstrate the ability to produce welds that meet visual inspection criteria based on AWS	WLDG 120	22-23
codes and industry standards in all positions on the five basic joint configurations with carbon steel,		
stainless steel, and aluminum, using Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding		
(SMAW), Flux Core Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW).	WLDG 121	22-23
PO7. Demonstrate the ability to produce welds that meet visual inspection criteria based on AWS codes and industry standards in all positions on the five basic joint configurations with carbon steel,		
stainless steel, and aluminum, using Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding		
(SMAW), Flux Core Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW).	WLDG 185	22-23
PO7. Demonstrate the ability to produce welds that meet visual inspection criteria based on AWS codes and industry standards in all positions on the five basic joint configurations with carbon steel,		
stainless steel, and aluminum, using Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding		
(SMAW), Flux Core Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW).	WLDG 209	22-23
PO7. Demonstrate the ability to produce welds that meet visual inspection criteria based on AWS		
codes and industry standards in all positions on the five basic joint configurations with carbon steel, stainless steel, and aluminum, using Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding		
(SMAW), Flux Core Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW).	WLDG 237	22-23
PO7. Demonstrate the ability to produce welds that meet visual inspection criteria based on AWS		
codes and industry standards in all positions on the five basic joint configurations with carbon steel,		
stainless steel, and aluminum, using Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding (SMAW), Flux Core Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW).	WLDG 245	22-23

PO8. Plan, design, and fabricate a weldment to industry standards by combining skills related to the various processes taught in the program. This will include cutting, preparing, welding, and		
assembling projects to specified tolerances.	WLDG 100	23-24
PO8. Plan, design, and fabricate a weldment to industry standards by combining skills related to the various processes taught in the program. This will include cutting, preparing, welding, and		
assembling projects to specified tolerances.	WLDG 111	23-24
PO8. Plan, design, and fabricate a weldment to industry standards by combining skills related to the various processes taught in the program. This will include cutting, preparing, welding, and		
assembling projects to specified tolerances.	WLDG 145	23-24
PO8. Plan, design, and fabricate a weldment to industry standards by combining skills related to the		
various processes taught in the program. This will include cutting, preparing, welding, and assembling projects to specified tolerances.	WLDG 121	23-24
PO8. Plan, design, and fabricate a weldment to industry standards by combining skills related to the		
various processes taught in the program. This will include cutting, preparing, welding, and assembling projects to specified tolerances.	WLDG 212	23-24
PO8. Plan, design, and fabricate a weldment to industry standards by combining skills related to the		
various processes taught in the program. This will include cutting, preparing, welding, and assembling projects to specified tolerances.	WLDG 280	23-24
PO8. Plan, design, and fabricate a weldment to industry standards by combining skills related to the		
various processes taught in the program. This will include cutting, preparing, welding, and assembling projects to specified tolerances.	WLDG 245	23-24
PO8. Plan, design, and fabricate a weldment to industry standards by combining skills related to the	WEDG 243	23 24
various processes taught in the program. This will include cutting, preparing, welding, and assembling projects to specified tolerances.	WLDG 281	23-24
PO9. Demonstrate the ability to set up and operate to industry standards Oxy-fuel, Air Carbon Arc	WEBG201	23 24
Cutting, and Plasma Cutting equipment.	WLDG 100	23-24
PO9. Demonstrate the ability to set up and operate to industry standards Oxy-fuel, Air Carbon Arc Cutting, and Plasma Cutting equipment.	WLDG 120	23-24
PO9. Demonstrate the ability to set up and operate to industry standards Oxy-fuel, Air Carbon Arc	WIDG 195	22.24
Cutting, and Plasma Cutting equipment. PO9. Demonstrate the ability to set up and operate to industry standards Oxy-fuel, Air Carbon Arc	WLDG 185	23-24
Cutting, and Plasma Cutting equipment.	WLDG 209	23-24
PO9. Demonstrate the ability to set up and operate to industry standards Oxy-fuel, Air Carbon Arc Cutting, and Plasma Cutting equipment.	WLDG 260	23-24
PO9. Demonstrate the ability to set up and operate to industry standards Oxy-fuel, Air Carbon Arc		
Cutting, and Plasma Cutting equipment. PO10. Demonstrate the ability to perform pipe welds in multiple positions to industry standards and	WLDG 281	23-24
codes.	WLDG 209	23-24
PO10. Demonstrate the ability to perform pipe welds in multiple positions to industry standards and codes.	WLDG 212	23-24
PO10. Demonstrate the ability to perform pipe welds in multiple positions to industry standards and		
codes. PO4. Demonstrate industry work ethic and professionalism.	WLDG 281 COMX 102	23-24 24-25
PO1. Demonstrate effective oral and written communication skills appropriate to the welding		
industry. PO1 Demonstrate effective oral and written communication skills appropriate to the welding	WRIT104/ COMX 102	24-25
PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry.	WRIT104/ COMX 102 WRIT121	24-25 24-25
PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding	WRIT121	24-25
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PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry.	WRIT121	24-25
PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding	WRIT121 WLDG 298	24-25 24-25
PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO11. Demonstrate a basic understanding of weld repair and equipment maintenance related to the welding field. PO11. Demonstrate a basic understanding of weld repair and equipment maintenance related to the	WRIT121 WLDG 298 WLDG 245 WLDG 260	24-25 24-25 24-25 24-25
PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO11. Demonstrate a basic understanding of weld repair and equipment maintenance related to the welding field.	WRIT121 WLDG 298 WLDG 245	24-25 24-25 24-25
PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO11. Demonstrate a basic understanding of weld repair and equipment maintenance related to the welding field. PO11. Demonstrate a basic understanding of weld repair and equipment maintenance related to the welding field. PO12. Demonstrate a basic understanding of weld repair and equipment maintenance related to the welding field. PO12. Demonstrate the ability to interpret blueprints and welding symbols to accurately fabricate a product.	WRIT121 WLDG 298 WLDG 245 WLDG 260	24-25 24-25 24-25 24-25
PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO11. Demonstrate a basic understanding of weld repair and equipment maintenance related to the welding field. PO11. Demonstrate a basic understanding of weld repair and equipment maintenance related to the welding field. PO12. Demonstrate the ability to interpret blueprints and welding symbols to accurately fabricate a	WRIT 121 WLDG 298 WLDG 245 WLDG 260 WLDG 245	24-25 24-25 24-25 24-25 24-25
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PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate effective oral and written communication skills appropriate to the welding industry. PO1. Demonstrate a basic understanding of weld repair and equipment maintenance related to the welding field. PO11. Demonstrate a basic understanding of weld repair and equipment maintenance related to the welding field. PO12. Demonstrate the ability to interpret blueprints and welding symbols to accurately fabricate a product. PO12. Demonstrate the ability to interpret blueprints and welding symbols to accurately fabricate a product.	WRIT121 WLDG 298 WLDG 245 WLDG 260 WLDG 245 WLDG 110	24-25 24-25 24-25 24-25 24-25 24-25
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