

GENERAL TECHNOLOGY GENERAL AND PIPE WELDING PATHWAY

2024-25 DEGREE PLAN Associate of Applied Science: 72 Credits

| REQUIRED ACADEMIC CORE | | |
|----------------------------|--|----|
| | TECH 12074 Technical Success Strategies | 4 |
| | TECH 11163 Workplace Writing (or higher) | 3 |
| | MATH 10103 Technical Math (or higher) | 3 |
| | CPSI 10003 Microcomputer Applications | 3 |
| | Choose 1: ECON/HIST/PLSC/PSYC/SOCI/SPAN | 3 |
| Academic Core Requirements | | 16 |

| GENERAL AND PIPE WELDING REQUIREMENTS | | |
|---------------------------------------|--|----|
| | TECH 12064 Technical Fundamentals | 4 |
| | WELD 23464 Welding I – SMAW I | 4 |
| | WELD 23564 Welding II – SMAW II | 4 |
| | WELD 23667 Welding III – MIG (GMAW) | 7 |
| | WELD 23767 Welding IV – TIG (GTAW) | 7 |
| | WELD 22064 Pipe Welding-FCAW | 4 |
| | WELD 21164 Pipe Welding-GMAW | 4 |
| | WELD 24064 Pipe Welding-GTAW-Low Alloy and Stainless Steel | 4 |
| | WELD 23064 Pipe Welding-GTAW-Carbon Steel | 4 |
| | WELD 21067 Pipe Welding-SMAW | 7 |
| | WELD 22167 Pipe Welding-SMAW-Stainless Steel | 7 |
| Industrial Maintenance Requirements | | 56 |

| Certificate of Proficiency: SMAW Welding | | |
|--|-----------------------------------|---|
| | TECH 12064 Technical Fundamentals | 4 |
| | WELD 23464 Welding I – SMAW I | 4 |
| | WELD 23564 Welding II – SMAW II | 4 |

| Certificate of Proficiency: TIG (GTAW) Welding | | |
|--|------------------------------------|---|
| | TECH 12064 Technical Fundamentals | 4 |
| | WELD 23767 Welding IV – TIG (GTAW) | 7 |

| Certificate of Proficiency: SMAW Pipe Welding | | |
|---|-------------------------------|---|
| | WELD 21067 Pipe Welding--SMAW | 7 |

| Certificate of Proficiency: GMAW/FCAW Pipe Welding | | |
|--|------------------------------|---|
| | WELD 22064 Pipe Welding-FCAW | 4 |
| | WELD 21164 Pipe Welding-GMAW | 4 |

| Technical Certificate: Welding Technology | | |
|---|---|---|
| | TECH 11163 Workplace Writing* | 3 |
| | MATH 10103 Technical Math** | 3 |
| | TECH 12074 Technical Success Strategies | 4 |
| | TECH 12064 Technical Fundamentals | 4 |
| | WELD 23464 Welding I – SMAW I | 4 |
| | WELD 23564 Welding II – SMAW II | 4 |
| | WELD 23667 Welding III – MIG (GMAW) | 7 |
| | WELD 23767 Welding IV – TIG (GTAW) | 7 |

| Technical Certificate: Pipe Welding Technology | | |
|--|--|---|
| | TECH 11163 Workplace Writing* | 3 |
| | MATH 10103 Technical Math** | 3 |
| | TECH 12074 Technical Success Strategies | 4 |
| | WELD 22064 Pipe Welding-FCAW | 4 |
| | WELD 21164 Pipe Welding-GMAW | 4 |
| | WELD 24064 Pipe Welding-GTAW-Low Alloy and Stainless Steel | 4 |
| | WELD 23064 Pipe Welding-GTAW-Carbon Steel | 4 |
| | WELD 21067 Pipe Welding-SMAW | 7 |
| | WELD 22167 Pipe Welding-SMAW-Stainless Steel | 7 |

| Certificate of Proficiency: MIG (GMAW) Welding | | |
|--|-------------------------------------|---|
| | TECH 12064 Technical Fundamentals | 4 |
| | WELD 23667 Welding III – MIG (GMAW) | 7 |

| Certificate of Proficiency: GTAW Pipe Welding | | |
|---|--|---|
| | WELD 24064 Pipe Welding-GTAW-Low Alloy and Stainless Steel | 4 |
| | WELD 23064 Pipe Welding-GTAW-Carbon Steel | 4 |

| Certificate of Proficiency: SMAW Stainless Steel Pipe Welding | | |
|---|--|---|
| | WELD 22167 Pipe Welding-SMAW-Stainless Steel | 7 |

ADVISOR: Tiana Kelly tkelly@cccua.edu

Eligible for ARFuture Grant [ADHE Scholarship Application Management System - Scholarship - ARFUTURE](#)

PROGRAM INFORMATION: Students must complete a Technical Certificate in Welding Technology prior to entering the Pipe Welding Certificate program. National Center for Construction Education and Research (NCCER) curriculum will be used for instruction toward both NCCER accreditation and American Welding certification; additional work experience may be necessary depending on the level of proficiency in various forms of welding developed during instruction.

CAREER OPTIONS: The Technical Certificates and Certificates of Proficiency focus on welding processes designed to develop the skills necessary for entry into industrial and commercial welding employment. Pipe Welding is an advanced welding program designed to prepare graduates for employment in pipe welding related jobs and/or higher paying jobs in general welding positions.