KanTRAIN Advanced Manufacturing

Flint Hills Technical College

# Program: Welding Technology Career Pathway

The welding program at Flint Hills Technical College has two entry points and three exit points. The final exit point is at the Associate of Applied Science (AAS) degree level. Students can exit to the workforce or transfer to a 4-year university for a Bachelor of Science (BS) degree or Bachelor of Applied Science (BAS) degree.

1. **Participant enters the program to obtain a Basic Welding certificate of completion.** 
   1. Exit point with Certificate of Completion or continue in a technology certificate program

## Certificate of Completion

| **Course** | **Credit hour** |
| --- | --- |
| TCH 231 Introduction to Welding | 1 |

1. **Participant enters the program to obtain a Welding Technology certificate or AAS degree**
   1. **Exits with a Welding certificate.**

## Welding Technology Certificate (Cert B) - 31 Credit Hours

| **Course** | **Credit hour(s)** |
| --- | --- |
| WLD 114 GMAW - Advanced | 4 |
| WLD 113 SMAW Pre-Pipe | 4 |
| WLD 106 Flux Cored Arc Welding | 3 |
| WLD 112 Destructive Testing Methods | 1 |
| WLD 111 Welding Discontinuity and Defects | 1 |
| WLD 110 Welding Procedures Qualification | 1 |
| WLD 108 SMAW Basic Shielded Metal Arc Welding | 3 |
| WLD 115 Thermal Cutting Processes | 3 |
| WLD 105 GTAW Gas Tungsten Arc Welding | 3 |
| WLD 103 GMAW Gas Metal Arc Welding | 3 |
| WLD 102 Blueprint Reading for Fitters & Welders | 3 |
| TCH 101 Welding Safety/OSHA 10 | 1 |
| PDV 101 Professional Development I | 1 |
| **Credits to achieve Welding Technology Certificate** | 31 |

* 1. **Exits with Associate of Applied Science (AAS) degree**

## Welding Technology AAS Degree - 64 or 65 Credit Hours

| **Course** | **Credit hour(s)** |
| --- | --- |
| WLD 206 Automated Welding | 4 |
| WLD 205 GMAW Advanced ASME/API | 4 |
| WLD 204 SMAW Pipe Advanced API | 4 |
| WLD 203 SMAW/GTAW Advanced ASME | 4 |
| WLD 202 Nondestructive Testing Methods | 1 |
| English Comp I or English for Tech Professionals | 3 |
| Public Speaking or Interpersonal Communications | 3 |
| Technical Math or College Algebra | 3 |
| Psychology or Sociology | 3 |
| Biology with Lab or Physical Science | 4-5 |
| **Additional credits to achieve AAS** | **33 - 34** |

### Certifications

Students who successfully complete the program and successfully complete the certification tests may achieve the following national industry recognized certifications:

* PFERD Grinding Safety Certificate
* AWS GMAW D1.1 Qualification
* AWS SMAW D1.1 Qualification

### Possible Careers with Salary Ranges

* With [AAS](https://www.onetonline.org/find/quick?s=47-2011.00) $13 - $38/hr
  + Pipe Welder
  + Boiler Maker
  + Iron Worker
  + Mechanized Welder
* With [Welding Technology Certificate](https://www.onetonline.org/link/summary/51-4121.00) $12-$29/hr
  + Welder
  + Cutter
  + Solderer
  + Brazer

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