



Industrial Training (634)

Associate of Applied Science

ABOUT OUR PROGRAM

The Highland Community College Industrial Training degree was created in partnership with the Area 23 Plumbers and Pipefitters Union. Its main purpose is to create pathways for those pursuing a career having an emphasis in Welding. Students will gain the core Welding and General Education skills at the community college. The remainder of their skill development will be obtained through the existing structure of the Plumbers/Pipefitters and Heating Air Conditioning and Ventilation (HVAC) 5-year Apprenticeship program. Upon completion of this degree each student will have the necessary skills to work in a group or independently.

NATURE OF WORK AND EMPLOYMENT

Industrial Technicians will find a wide variety of employment options mainly in the area of metal fabrication. Possible careers would be Welder, Brazer, Plumber, Pipefitter and Steamer. These careers are generally for full time positions with plenty of opportunity for overtime and possible travel. Completers of this program would be able to be hired in several entry level positions, but with their completion of the apprenticeship program within these degrees they would be able to work at a Journeyman's level and pay rate.

SPECIAL CONSIDERATIONS

A workplace experience is encouraged and may be made available.

PROGRAM CONTACTS

Call Highland at 815-235-6121 for the following program contacts:

- Scott Anderson, Dean of Business & Technology
- Theford Jackson, Transfer Coordinator/Student Advisor

Required General Education Courses

16/17 Sem. Hours

SPCH	191	Fundamentals of Speech Communication	3
* NSCI	232	Fundamentals of Meteorology	4
* INFT	180	Introduction to Information Systems	3
* ENGL	121	Rhetoric and Composition	
	-or-		3
* BUSN	141	Business Communications	
* MATH	166	College Algebra	
	-or-		
* MATH	111	Technical Math	4/3
	-or-		
* MATH	167	Plane Trigonometry	

Option A

Career and Technical Education Courses

17/18 Sem. Hours

WELD	130	Introduction to Welding	
	-or-		3
WELD	135	Shielded Arc and Oxyacetylene Welding	
* WELD	232	Intermediate Welding and Fabrication	3
* WELD	233	Advanced Welding Processes	3
DRAF	110	Print Reading and Inspection	
	-or-		2/3
DRAF	111	Architectural Print Reading	
DRAF	105	Computer Aided Drafting	3
* ELET	179	Electronic Principles	3

Option B

Career and Technical Education Courses

18 Sem. Hours

WELD	130	Introduction to Welding	
	-or-		3
WELD	135	Shielded Arc and Oxyacetylene Welding	
* WELD	232	Intermediate Welding and Fabrication	3
* ELET	179	Electronic Principles	3
* ELET	182	Electronic Devices and Circuits I	3
* ELET	183	Electronic Devices and Circuits II	3
* ELET	220	Motors and Controls	3

Work-based Learning Courses

32 Sem. Hours

Plumbers and Pipefitters Union 23 Apprenticeship Program	32
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Total Hours =

65/67

* Course has a prerequisite. See course descriptions.