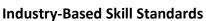


#### **EMPLOYABILITY PROFILE**

### **Semiconductor Technology**



**Proficiency Definitions** 

NA = Not Applicable 1 = Developing 2 = Basic

3 = Proficient

4 = Mastery

STEAM High School

	9th	10th	11th	12th		9th	10th	11th	12th	
Safety in the Work Environment					Applied Physics: Light					
Demonstrate the use and care of appropriate personal protective equipment, and identify safe handling, labeling and storage protocols for hazardous (chemicals) materials used in semiconductor technology.					Demonstrate reading of a spectrometer and spectrophotometer.					
Hand Tools					Industrial Electricity					
Identify and demonstrate the safe use of common hand and power tools. tools suctorque wrench, hex wrench, pliers, clamping devices, screwdrivers, chisels, saws, swire cutters, and connectors.										
Technical Drawing					Vacuum					
Demonstrate proficiency in creating and interpreting electrical/electronic drawings or schematics.				Demonstrate the process of creating a small vacuum and explain why and when a vacuum environment is used during semiconductor manufacturing.						
Digital Literacy					Programming Fundamentals					
Demonstrate safety in personal use and information when using technology and summarize strategies to check validity of internet sources.				Translate logical expressions into schematic or symbolic representation and design a program, using an algorithm, pseudocode, a flowchart, and/or a decision table.						
Sand to Semiconductor					Fluid Power					
Demonstrate and describe how wafers are handled, cleaned after cutting, and are finished.				Demonstrate calculation of flow rate, flow velocity and mechanical advantage in a hydraulic steam.						
Cleanroom					Programmable Logic Controls					
Demonstrate how to enter and exit a cleanroom. Describe the process and procedure for maintaining a cleanroom environment.					Identity components of a PLC and demonstrate functions of the components.					
					Career Development Portfolio					
					Creates a career development portfolio using appropriate writing skills to creletter, resumes, samples of work, and career plan to be used in the job seeki process.					

WORK-BASED LEARNING			POSTSECONDARY CREDIT					
Type of WBL Experience	Year	Hours	College Course	Possibl	e Cr.	Attained		
			ELM-100 Intro. To Problem Solving	2		Υ	N	
			ELM-101 Technical Drawing Interpretation	1		Υ	N	
			ELM-102 Safety in Industry	1		Υ	N	
			MAT-103 Tech. Math Fundamentals	2		Υ	N	
			ELM-104 Industrial Electricity I	2		Υ	N	
			ELM-105 Programming Fundamentals	2		Υ	N	
			ELM-106 Intro To Industrial Tools	2		Υ	N	
			ELM-107 Intro to Fluid Power	2		Υ	N	
			MAT-108 Intro to Statistical Process Control	2		Υ	N	
			ELM-109 Introduction to Mechanisms	2		Υ	N	
			ENG 103 Freshman Composition and Literature I	3		Υ	N	



# EMPLOYABILITY PROFILE Semiconductor Technology



		ENG 104 Freshman Composition and Literature II	3		Y	N
		Technical Assessment	Passed			
			Υ		N	
			Y		ı	N
			Υ		N	
_		CERTIFICATIONS, ENDORSEMENTS, LICENSES				
		Title	Date O	btained		
		ELECTROMECHANICAL CERTIFICATE				
TOTAL					•	•

AWARDS, SPECIAL RECOGNITION, SCHOLARSHIPS	DIPLOMA	Date Obtained	
	Diploma Earned: Insert diploma type here		
	Technical Endorsement on Diploma?	Υ	N
		Υ	N
		Υ	N

P	Approval Date:	P	rinci	pal	:	
				•		_



### **EMPLOYABILITY PROFILE**

## **Semiconductor Technology**





