



# Career Plan of Study

Welding/Year \_\_\_\_\_

Cluster: Manufacturing Pathway: Welding and Metal  
Career Major: Welder/Fitters

Learner Name \_\_\_\_\_ Date \_\_\_\_\_

Learner Signature \_\_\_\_\_ Advisor Signature \_\_\_\_\_

Parent/Guardian Signature (if required) \_\_\_\_\_ Student Status \_\_\_ Secondary \_\_\_ Post-Secondary

Recommended Course Sequence	Grade	Start Date	Date Complete	Hours		Grade	Start Date	Date Complete	Hours
Introduction to Welding & Cutting Processes				60	Metal Preparation & Heat Treatments				30
GMAW/FCAW Equipment & Setup				15	GMAW Plate				60
Metal Characteristics & Properties				30	GTAW Low Alloy & Stainless Steel Pipe				90
FCAW Plate/Pipe				60	Workforce Staging				30
Air Carbon Arc Cutting & Gouging				15					
Plasma Arc Cutting				15					
Welding Blueprints				15					
Welding Joint Fit Up & Adjustment				15					
GTAW Equipment & Filler Materials				15					
GTAW Plate				60					
SMAW Electrodes				15					
SMAW Equipment & Setup				15					
SMAW Beads & Fillet Welds				120					
Welding Detail Drawings II				45					
GTAW Aluminum Plate				45					
GTAW Carbon Steel Pipe				90					
Mitering, Saddling & Branching Pipe				75					
SMAW Open Root Pipe Welds				105					
						<b>Total Hours 1050</b>			

**STRUCTURAL AND PIPE WELDER** Year \_\_\_\_\_ Name \_\_\_\_\_

**Articulation OSU Okmulgee College Credit**

Post-Secondary	OSU Okmulgee		High Plains Tech Courses	Grade	Date Completed	Instructor Signature
	WELD 1103	Reading Welding Blueprints	Blueprint Reading/Layout for Welding			
	WELD 1113	Oxy-Fuel Welding & Cutting and Plasma Cutting	Oxyacetylene Welding and Cutting			
	WELD 1123	Introduction to Shielded Metal Arc Welding	Shielded Metal Arc Welding (SMAW)			
	WELD 2323	Electrode Selection and Weld Quality	Shielded Metal Arc Welding (SMAW)			
	WELD 2405	Shielded Metal Arc Welding on Pipe	Shielded Metal Arc Welding (SMAW)			
	WELD 1203	Non Destructive Testing	Introduction and Shop Projects			
	WELD 1302	Physical Characteristics and Mechanical Properties of Metals	Introduction and Shop Projects			
	WELD 1213	Introduction to Gas Tungsten Arc Welding	Gas Tungsten Arc Welding			
	WELD 2313	Introduction to Flux Core Arc Welding FCAW	Flux Core Welding			
	WELD 2322	Joint Fit-up and Alignment for Structural Steel	Pipe Welding			
	WELD 2412	Joint Fit-up and Alignment of Pipe	Pipe Welding			

Career Enhancement	Work-Based Learning Options		Certifications			
			<b>BrainBench Certifications</b>			
	<small>(A = Active, NA = Not Active)</small>					
	Years _____					
	____ Member	____ Committee Member				
	____ Officer	____ Committee Chair				
	____ State Competitions	____ National Competitions				
	Other:					
	OJT Site _____	Date _____	<b>Oklahoma Department of Career Tech Recommended Certifications</b>			
	Location _____					
Special Notes:						
<small>**High Plains Technology Center does not condone discrimination with regard to race, color, national origin, religion, gender, age, disability or veteran status in enrollment or employment, nor in the educational programs or activities which it operates.</small>						

**\*To earn a Completion Certificate, student must maintain an 80% in each course and pass required certification exams.**

