

Career Plan of Study

2009-2010 Welding

Cluster: Manufacturing Pathway: Welding and Metal
Career Major: Structural & Pipe Welder

Learner Name _____ Date _____

Learner Signature _____ Advisor Signature _____

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

Recommended Course Sequence	Grade	Completed	Hours		Grade	Completed	Hours
Workforce Staging			30	GMAW/FCAW Equipment and Setup			15
Plasma Arc Cutting			15	Oxyfuel Cutting			30
Air Carbon Arc Cutting and Gouging			15	Fundamentals of Cutting Processes			30
SMAW Open Root Pipe Welds			105	Metal Preparation and Heat Treatments			30
SMAW Open V-Groove Welds			120	Metal Characteristics and Properties			30
SWMA Beads and Fillet Welds			120	Welding Detail Drawings			30
FCAW Pipe			45	Fundamentals of Welding			30
FCAW Plate			60	SMAW Stainless Steel Groove and Pipe Welds			75
GTAW Aluminum Pipe			75	SMAW Groove Welds with Backing			30
GTAW Low Allow & Stainless Steel Pipe			90	GMAW Aluminum Pipe and Plate			45
GTAW Carbon Steel Pipe			90	GMAW Pipe			60
GTAW Aluminum Plate			45				
GTAW Plate			60				
GMAW Plate			60				
Weld Quality			15				
Welding Blueprints			15				
Welding Joint Fit-up and Adjustment			15				
SMAW Electrodes			15				
SMAW Equipment & Setup			15				
GTAW Equipment & Filler Materials			15				
Total Hours							1425

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	Gas Metal Arc Flux 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			
			BrainBench Certifications			
	(A = Active, NA = Not Active)					
	Years _____					
	____ Member	____ Committee Member				
	____ Officer	____ Committee Chair				
	____ State Competitions	____ National Competitions				
	Other:					
	OJT Site _____ Date _____		Oklahoma Department of Career Tech Recommended Certifications			
Location _____						
Special Notes:						

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

