

WELDING TECHNOLOGY PROGRAM GUIDE

NAME: _____

DATE: _____

****All courses must be completed with a grade of "C" or better.**

COURSE NAME	COURSE ABBREVIATION	COURSE NUMBER	CREDIT HOURS	GRADE	TERM TAKEN
FIRST SEMESTER (Fall)					
Occupational Orientation & Welding Safety (includes NCCER Core)	WELD	1005	5		
Applied Math	WELD or MATH	1000	2		
SMAW Beads	WELD	1403	3		
SMAW Fillet Welds	WELD	1415	5		
Oxyfuel Cutting	WELD	1211	1		
Welding Symbols, Detailed Drawings and SMAW Equipment & Set Up	WELD	1121	1		
SEMESTER CREDIT HOURS			17		

SECOND SEMESTER (Spring)					
Plasma Arc Cutting and Air Carbon Arc Cutting & Gouging	WELD	1321	1		
Shielded Metal Arc Electrodes, Base Metal Preparation and Joint Fit Up & Alignment	WELD	1401	1		
SMAW Groove Welds with Backing	WELD	1432	2		
SMAW Open V Groove Welds	WELD	1425	5		
Welding Inspection and Welding Processes <i>*AWS Certification (Part A – Level I)</i>	WELD	1134	4		
SEMESTER CREDIT HOURS			13		
CTS – Entry Welder, SMAW			30		

THIRD SEMESTER (Fall)					
GMAW, FCAW, GTAW Equipment and Filler Metals	WELD	1171	1		
GTAW Plate	WELD	2104	4		
GMAW & FCAW Plate	WELD	2155	5		
GMAW Pipe	WELD	2374	4		
SEMESTER CREDIT HOURS			14		

FOURTH SEMESTER (Fall)					
GTAW Carbon Steel Pipe	WELD	2255	5		
GTAW Low Alloy & Stainless Steel Pipe	WELD	2264	4		
FCAW Pipe	WELD	2154	4		
Physical Char of Metals & Pre-Heating & Post Heating of Metals Weld Quality <i>*AWS Certification (Part B – Level I)</i>	WELD	1161	1		
SEMESTER CREDIT HOURS			14		
CTS – GMAW, GTAW & FCAW Welding Processes			28		
TD – WELDING			58		

WELDING

Completion Points

CTS - Certificate of Technical Studies
All welding classes must be passed with a "C" or better.

CTS, Entry Welder, SMAW (30 credit hours)

Occupational Orientation & Welding Safety (includes NCCER Core)	WELD	1005	5
Applied Math	WELD	1000	2
SMAW Beads	WELD	1403	3
SMAW Fillet Welds	WELD	1415	5
Oxyfuel Cutting	WELD	1211	1
Welding Symbols, Detailed Drawings, and SMAW Equipment & Set Up	WELD	1121	1
Plasma Arc Cutting, and Air Carbon Arc Cutting & Gouging	WELD	1321	1
Shielded Metal Arc Electrodes, Base Metal Preparation and Joint Fit Up & Alignment	WELD	1401	1
SMAW Groove Welds with Backing	WELD	1432	2
SMAW Open V Groove Welds	WELD	1425	5
Welding Inspection and Welding Processes * AWS Certification (Part A – Level I)	WELD	1134	4
CTS, Entry Welder (SMAW)			30

CTS, GMAW, GTAW, and FCAW Welding Process (28 credit hours)

GMAW, FCAW, GTAW Equipment and Filler Metals	WELD	1171	1
GTAW Plate	WELD	2104	4
GMAW & FCAW Plate	WELD	2155	5
GMAW Pipe	WELD	2374	4
GTAW Carbon Steel Pipe	WELD	2255	5
GTAW Low Alloy & Stainless Steel Pipe	WELD	2264	4
FCAW Pipe	WELD	2154	4
Weld Quality, Physical Characteristics of Metals & Pre-Heating and Post Heating of Metals **AWS Certification (Part B – Level I)	WELD	1181	1
CTS, GMAW, GTAW, and FCAW Welding Processes			28

