

WELDING

Curriculum Guide for Academic Year 2017-2018

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	Program of study leading to:			
	Certificate of Accomplishment			
Certificate: Advanced A	rc Welding (SMAW and FCAW) 4986			• • • •
DECLUBED COURSES		LIMITO	In December	Completed
REQUIRED COURSES		UNITS	Progress	Grade
WELD 213	Intro to Semi-Automatic Welding	4		
WELD 483	Gas Metal Arc/Flux Core Arc Welding	2		
WELD 415 WELD 416	SMAW Flat/Horz Open Root Groove Welds	2		
WELD 416	SMAW Vert & O/H Open Root Groove Welds	2	!	
	SUBTOTAL UNITS	10		<u> </u>
			1	Camplatad
IN ADDITION Complete 6	(SIX) Units from the following courses:	UNITS	In Progress	Completed Grade
			Trogress	Tade
WELD 221 MTFAB 260	Arc Welding Structural Certification Blueprint Reading for Metal Fabrication	3 3		
MTFAB 270	Metallurgy	3		
WITI AD 270	SUBTOTAL UNITS	6	! [1
		-		
	TOTAL UNITS	16		
Cortificato: Gas Tungst	en Arc Welding (GTAW) 4989			
Certificate. Cas rungst	en Arc Welding (OTAW) 4909		In	Completed
REQUIRED COURSES		UNITS	Progress	Grade
WELD 214	Introduction to GAS Tungsten Arc Welding	4		
WELD 480	Welding (Inert Gas)	2		
WELD 482	Gas Tungsten ARC Welding Basic Joints	2		
MTFAB 260	Blueprint Reading for Metal Fabrication	3		
	TOTAL UNITS	11		
			<u>L</u>	_
·				_
Certificate: Shielded M	letal Arc Welding (SMAW) 4991			
			_ In	Completed
REQUIRED COURSES		UNITS	Progress	Grade
WELD 212	Introduction to Shielded Metal Arc Welding	4		
WELD 221	Arc Welding Structural Certification	3		
MTFAB 260	Blueprint Reading for Metal Fabrication	3		
	SUBTOTAL UNITS	10		
			_ In	Completed
<u>`</u>	(FOUR) Units from the following courses:	UNITS	Progress	Grade
WELD 410	Welding (ARC)	2		
WELD 413	SMAW Flat/Horz Groove Welds with Backing	2		
WELD 414	SMAW Vert and OV/HD Grv WELDS w/Backing	2		
	SUBTOTAL UNITS	4		
	TOTAL UNITS	14		
Certificate of Accomplishm	ent requirements continue on the following page.			

WELDING 2017-2018 **AS = 2986; C-ACH = 3986**Departmental Phone: 562-938-3076 or 938-3054

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For graduation with a **Certificate of Accomplishment:**

- 1. Complete the required units with a minimum grade point average of 2.0 ("C" average).
- 2. Fifty percent (50%) or more of the required must be completed in residence at LBCC.
- Complete and submit the certificate application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at http://admissions.lbcc.edu/.

Program Mission and Outcomes

Mission Statement for Certificate of Accomplishment, Shielded Metal Arc Welding (SMAW):

The Welding Technology Certificate of Accomplishment in Shielded Metal Arc Welding (SMAW) is for those interested in welding structural steel. Course work includes a comprehensive study with an emphasis on application of fundamental welding techniques and safe industry practices.

Outcomes:

• Demonstrate advanced level skills to produce quality welds in the flat, horizontal, vertical, and overhead positions using the SMAW (Shielded Metal Arc Welding) process.

Mission Statement for Certificate of Accomplishment, Advanced Arc Welding (SMAW and FCAW):

The Welding Technology Certificate of Accomplishment in Advanced Arc Welding will emphasize advance welding skills in the SMAW (Shielded Metal Arc Welding) and FCAW (Flux Core Arc Welding) processes. Course work includes a comprehensive study with an emphasis on application of fundamental welding techniques and safe industry practices.

Outcomes:

 Demonstrate advanced level skills to produce quality welds in the flat, horizontal, vertical, and overhead positions using various arc-welding processes.

Mission Statement for Certificate of Accomplishment, Gas Tungsten:

The Welding Technology Certificate of Accomplishment in Gas Tungsten Arc Welding (GTAW) is for those interested in entry-level welding skills to required GTAW Aluminum, low carbon, and stainless steels. Course work includes a comprehensive study with an emphasis on application of fundamental welding techniques and safe industry practices.

Outcomes:

 Demonstrate advanced level skills to produce quality welds in the flat, horizontal, and vertical positions using the GTAW (Gas Tungsten Welding) process.

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