



DABNEY S. LANCASTER  
COMMUNITY COLLEGE

## Industrial/Structural Welding

### Level 2

Certificate

Program Code: 744  
2020-2021 Catalog

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### **Purpose**

To meet industry's demand for different types of welding training, the Welding program has created two parallel certificates: one in Industrial/Structural Welding, the other in Pipe Welding.

### **Admission Requirements**

Students who meet the admission requirements to the College are eligible for enrollment into the program. Although there are no testing requirements before enrolling in a welding course, students whose placement test scores indicate the need to increase their level of proficiency in reading, writing and/or mathematics will be required to take appropriate developmental courses before enrolling in related courses, such as blueprint reading. Enrolling in developmental courses may increase the length of time necessary for completing the chosen course(s) or program of study, but will enhance the student's preparation for college-level coursework and increase the chances for successful attainment of academic, occupational and personal goals.

### **Program Description**

The Welding Certificate is composed of welding skills courses, safety, basic English, metallurgy and blueprint reading. Applied mathematics is also included in the program.

### **Employment Outlook**

Demand for welders is strong for those with up-to-date skills. Welding is important in most manufacturing processes, and across different industries. The need for upgrading highways and bridges, as well as aging buildings, helps to explain why the demand for welders should remain strong. In 2017, the median annual wage was \$58,998 (payscale.com), but those in specialty areas such as pipefitters or boilermakers can earn considerably more.

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Course Number	Course Name	Cr.	Pre/Co Requisites	Semester	Grade
<b>Fall Semester</b>					
WEL 120	Introduction to Welding	2	Co-requisite: SAF 130 or SAF 131*	F	
SAF 130 OR SAF 131*	Industrial Safety (OSHA 10) Construction Safety (OSHA 10)	1		F	
WEL 123	SMAW (Basic)	3	Co-requisite: SAF 130 or SAF 131*	F	
WEL 160	Gas Metal Arc Welding	3	Co-requisite: SAF 130 or SAF 131*	F	
MAC 111 OR MTH 131	Machine Trade Computations OR Technical Mathematics	3	Prerequisite: MTE 1-6	F	
WEL 164	Gas Tungsten Arc Welding	3	Co-requisite: SAF 130 or SAF 131*	F	
WEL 150	Welding Drawing and Interpretation	3	Prerequisite: MTE 1-2 or Co-req: MAC 111	F	
<b>Spring Semester</b>					
HLT 100	First Aid/CPR	2		SP	
WEL 161	Flux Cored Arc Welding	3	Co-requisite: SAF 130 or SAF 131*	SP	
WEL 145	Metallurgy	4		SP	
WEL 124	SMAW (Advanced)	3	Prerequisite: WEL 123 or instructor approval	SP	
<b>Credential Earned:</b>	<b>Fundamentals of Welding</b>				
WEL 125 OR WEL 166	SMAW Capstone OR Advanced Gas Tungsten Arc Welding (GTAW), Tungsten Inert Gas (TIG)	1-3	Prerequisite: WEL 123, Co-requisite: WEL 124  Prerequisite: WEL 164 or instructor approval	SP	
ENG 100 OR ENG 111	Occupational English OR ENG Composition I	3	Prerequisite: Readiness to enroll in ENG 111	SP	

**Credit hours required for certificate: 34-36**

\*SAF 131 – Pending new course approval

#### TRANSFER OPTIONS

Agreements exist between Dabney S. Lancaster Community College and various four-year colleges and universities. Contact Student Services for information about further study after graduation from DSLCC.

#### DISCLAIMERS

Every effort is made to ensure accuracy, but the College reserves the right to make edits with respect to course offerings, programs and requirements contained in this publication. This information is provided for the convenience of the reader and DSLCC disclaims any liability. Please note that not all courses are offered at all locations or during all sessions. Check class sites and times when registering. Most programs of study begin in the fall semester. Please note that while new students are welcome to enroll in any session, those who enter in spring or summer will likely find that completion of requirements may take longer.