John A. Logan College

Associate in Applied Science

Toward a Degree in

Welding Technology

Career Curriculum WEL2010
Minimum Hours: 69
Major Code: 1.2 480508E
Effective Date: Spring 2017

FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
IND	201	Metallurgy	2	
MAT	113	Introduction to Contemporary Mathematics OR MAT 100 Mathematics for Applied Technologies	3	
WEL	150	Oxy-Acetylene Fusion Welding I	1	
WEL	151	Oxy-Acetylene Fusion Welding II	2	
WEL	152	Brazing & Soldering	1	
WEL	153	Oxy-Acetylene Cutting	1	
WEL	154	Arc Welding I	2	
WEL	155	Arc Welding II	2	
WEL	156	Arc Welding III	1	
WEL	200	Welding Theory	2	
			17	

FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ENG	101	English Composition I[1] OR ENG 113 Professional Technical Writing[1]	3	
MAC	180	Blueprint Reading	3	
WEL	157	Arc Welding IV	1	
WEL	158	Arc Welding V	1	
WEL	159	Arc Welding	1	
WEL	160	M.I.G. Welding	2	
WEL	161	Cored Wire Welding	2	
WEL	162	T.I.G. Welding	1	
WEL	163	Weld Testing & Inspection[1]	2	
WEL	198	T.I.G. Welding Aluminum	1	
WEL	199	T.I.G. Welding Stainless Steel	1	
			18	

SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
IDM	210	Hydraulics and Pneumatics	4	
MAC	200	Machine Tool Laboratory	4	
SPE	115	Speech OR SPE 116 Interpersonal Communication	3	
WEL	188	Welding Laboratory I	1	
WEL	189	Welding Laboratory II	1	
WEL	190	Welding Laboratory III	1	
WEL	191	Welding Laboratory IV	1	
WEL	195	Special Problems in Welding	2	
			17	

SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
DRT	185	Computer Graphics I	2	
DRT	192	Blueprint Reading	3	
IAI Physical/Life Science or IAI Humanities/ Fine Arts Elective			3-5	
IAI Social and Behavioral Science Elective			3	
WEL	192	Introduction to Pipe Welding	1	
WEL	193	Pipe Welding	1	
WEL	194	Pipe Welding	2	
WEL	196	M.I.G. Welding Aluminum	1	
WEL	197	M.I.G. Welding Stainless Steel	1	
			17-19	

NOTES AND INFORMATION

Fall only courses:

IDM 210
MAC 200

Spring only courses:

DRT 192

[1] Requires a grade of "C" or higher.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

Career Opportunities: Upon successful completion of the AAS degree, the student will have the opportunity to enter the workforce as a welding technician. The program will prepare graduates for entry into union trades positions including boilermakers, plumbers & pipefitters, structural steel workers, rail car repair and general maintenance; small and medium job shops.
The Welding Program is accredited by:

American Welding Society
8669 NW 36 Street
Suite 130
Doral, FL 33166

John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.