

WELDING

Program Description

The welding program at the Eastern Iowa Community Colleges (EICC) provides options in certificate, diploma, or degree programs in a range of industrial welding techniques: ARC, MIG, TIG, core wire, gas. Certificate programs are offered in basic welding, general maintenance welding, production welding, and structural welding. The welding lab is equipped to provide each student with hands-on learning opportunities, with instructors present and available for guidance. Courses are offered in an eight-week format with flexible schedule of attendance during the day or evening.

Award Options

Welding, Associate of Applied Science

Welding, Diploma

Welder, Diploma

Advanced Welding, Certificate

Basic Welding, Certificate

Fundamental Welding, Certificate

*General Maintenance Welding, Certificate

Production Welding, Certificate

*Structural Welding, Certificate

Job Outlook

Job prospects for welders will vary with the welder's skill level. Prospects should be good for welders trained in the latest technologies. Median annual wages of welders, cutters, solderers, and brazers were \$36,300 in May 2014. The lowest 10 percent earned less than \$23,940, and the top 10 percent earned more than \$53,690.

For details, please visit this link <http://www.bls.gov/ooh/>

*No longer accepting students in these awards.



THE *Community's College*



**CLINTON, MUSCATINE, & SCOTT
COMMUNITY COLLEGES**

Program Faculty

Craig Burken – CCC

cburken@eicc.edu

Chris Kramer – MCC

563-288-6021

cgkramer@eicc.edu

Megan Edens – BTC

563-441-4393

mredens@eicc.edu

Blong Technology Center (BTC)

8500 Hillandale Road

Davenport, IA 52804

563-441-4360

www.eicc.edu

Toll-free 1-888-336-3907

Our Web Links:

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Tuition and fees subject to change by the EICC Board of Trustees.

WELDING

Welding, AAS Degree

		Credits
TERM 1		
MAT:733	Math for Technologies A	1.50
MAT: 734	Math for Technologies B	1.50
MFG:186	Plant Safety	1.00
MFG:192	Blueprint Reading	3.00
WEL:123	Welding Symbols	1.00
WEL:274	Shielded Metal Arc Welding I: SENSE 1	3.00
WEL:275	Shielded Metal Arc Welding II: SENSE 1	3.00
		14.00

TERM 2		
CSC:112	Computer Fundamentals for Technicians I/A	2.00
CSC:113	Computer Fundamentals for Technicians I/B	2.00
WEL:215	Shielded Metal Arc Welding Adv I	5.00
WEL:256	Gas Metal Arc Welding Basic	4.50
		13.50

TERM 3		
ENG:107	Composition I: Technical Writing	3.00
WEL:192	Gas Tungsten Arc Welding	4.00
WEL:257	Flux Core Arc Welding	2.50
---:---	Humanities / Social Science Elective*	3.00
---:---	Technical Elective**	3.00
		15.50

TERM 4		
WEL:258	Shielded Metal Arc Welding Advanced II	5.00
WEL:416	Advanced Gas Metal Arc Welding (GMAW)	2.00
---:---	Humanities / Social Science Elective*	3.00
---:---	Technical Elective**	5.00
		15.00

TERM 5 – SUMMER		
WEL:259	Oxy-Acetylene Arc Welding	1.00
---:---	Technical Electives**	3.00
		4.00

Welding, AAS Total 62.00

Welding, Diploma

		Credits
TERM 1		
MAT:733	Math for Technologies A	1.50
MAT: 734	Math for Technologies B	1.50
MFG:186	Plant Safety	1.00
MFG:192	Blueprint Reading	3.00
WEL:123	Welding Symbols	1.00
WEL:274	Shielded Metal Arc Welding I: SENSE 1	3.00
WEL:275	Shielded Metal Arc Welding II: SENSE 1	3.00
		14.00

Clinton Community College

1000 Lincoln Boulevard,
Clinton, IA 52732
563-244-7001
1-800-638-0559

www.facebook.com/clintoncommunitycollegeia

Admissions Officer

Heather Evans

hlevans@eicc.edu
563-244-7007
FAX 563-244-7107

Muscatine Community College

152 Colorado Street,
Muscatine, IA 52761
563-288-6001
1-800-351-4669

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Admissions Officer

Kari Hanson

khanson@eicc.edu
563-288-6007

Scott Community College

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Bettendorf, IA 52722
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1-800-895-0811

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Kelsey King – Belmont Campus

kking@eicc.edu
563-441-4007
FAX 563-441-4101

Amy Herrig – Urban Campus

atherrig@eicc.edu
563-336-5258

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TERM 2

ENG:107	Composition I: Technical Writing	3.00
WEL:192	Gas Tungsten Arc Welding	4.00
WEL:256	Gas Metal Arc Welding Basic	4.50
----	Humanities / Social Science Elective*	3.00
		<u>14.50</u>

TERM 3 - SUMMER

WEL:257	Flux Core Arc Welding	2.50
WEL:259	Oxy-Acetylene Arc Welding	1.00
		<u>3.50</u>

Welding, Diploma Total 32.00

*HUMANITIES / SOCIAL SCIENCE ELECTIVES

(Select from the following courses)

		Credits
ANT:105	Cultural Anthropology	3.00
CLS:150	Latin American History and Culture	3.00
ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
FLS:141	Elementary Spanish I	4.00
GEO:121	World Regional Geography	3.00
GLS:100	Contemporary World Issues	3.00
HIS:117	Western Civilization I: Ancient and Medieval	3.00
HIS:118	Western Civilization II: Early Modern	3.00
HIS:119	Western Civilization III: The Modern Period	3.00
HIS:151	U.S. History to 1877	3.00
HIS:152	U.S. History Since 1877	3.00
HIS:211	Modern Asian History	3.00
HIS:231	Contemporary World Affairs	3.00
HUM:105	Working in America	3.00
HUM:110	Changes and Choices	3.00
POL:111	American National Government	3.00
PSY:111	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00

**TECHNICAL ELECTIVES

(Select a minimum of 11 credits hours total)

		Credits
CAD:286	SolidWorks - Modeling	3.00
CAD:287	SolidWorks - Applications	3.00
DRF:131	Basic Drafting and Design I	3.00
DRF:132	Basic Drafting and Design II	3.00
ELE:216	DC Circuit Analysis	3.00
ELE:217	AC Circuit Analysis	3.00
MFG:105	Machine Shop Measuring	3.00
MGF:111	Machinery's Handbook	1.00
MFG:112	Drills and Saws	2.00
MFG:116	Carbide Tooling	1.00
MFG:190	Metallurgy	2.00

Credits

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Heather Evans

hlevans@eicc.edu
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Admissions Officer

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kking@eicc.edu
563-441-4007
FAX 563-441-4101

Amy Herrig - Urban Campus

atherrig@eicc.edu
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Welder, Diploma

This is a pilot program which currently only offered at BTC location.

TERM 1

MFG:106	Workplace Safety	3.00
WEL:361	VR Welding	2.00
WEL:362	Welding Fundamentals (Symbols & Blueprint)	3.00
WEL:363	Welding Discontinuities and Defects	1.00
WEL:364	Gas Metal Arc Welding	4.00
WEL:365	Flux Core Arc Welding & Metal Cutting	3.00
		<u>16.00</u>

TERM 2

ENG:107	Composition I: Technical Writing	3.00
SPC:170	Professional Communication	3.00
MAT:104	Applied Math Topics	3.00
WEL:191	Gas Tungsten Arc Welding	3.00
WEL:366	Shielded Metal Arc Welding Basic	4.00
WEL:367	Advanced Welding Blue Print Reading	3.00
		<u>16.00</u>

Welder, Diploma Total..... 32.00

Advanced Welding, Certificate

This is a pilot program which currently only offered at BTC location.

TERM 1

MFG:106	Workplace Safety	3.00
WEL:361	VR Welding	2.00
WEL:362	Welding Fundamentals (Symbols & Blueprint)	3.00
WEL:363	Welding Discontinuities and Defects	1.00
WEL:364	Gas Metal Arc Welding	4.00
WEL:365	Flux Core Arc Welding & Metal Cutting	3.00
		<u>16.00</u>

TERM 2

WEL:191	Gas Tungsten Arc Welding	3.00
WEL:366	Shielded Metal Arc Welding	4.00
WEL:367	Advanced Welding Blueprint Reading	3.00
		<u>10.00</u>

Advanced Welding, Certificate Total 26.00

Basic Welding, Certificate

TERM 1

MFG:186	Plant Safety	1.00
MFG:192	Blueprint Reading	3.00
WEL:257	Flux Core Arc Welding	2.50
WEL:274	Shielded Metal Arc Welding I: SENSE 1	3.00
WEL:275	Shielded Metal Arc Welding II: SENSE 1	3.00
		<u>12.50</u>

TERM 2

WEL:192	Gas Tungsten Arc Welding	4.00
WEL:256	Gas Metal Arc Welding Basic	4.50
WEL:259	Oxy-Acetylene Arc Welding	1.00
		<u>9.50</u>

Basic Welding, Certificate Total 22.00

Credits

Clinton Community College

1000 Lincoln Boulevard,
Clinton, IA 52732
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Admissions Officer

Heather Evans

hlevans@eicc.edu
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FAX 563-244-7107

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Fundamental Welding, Certificate

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TERM 1

MFG:106	Workplace Safety	3.00
WEL:361	VR Welding	2.00
WEL:362	Welding Fundamentals (Symbols & Blueprint)	3.00
WEL:363	Welding Discontinuities and Defects	1.00
WEL:364	Gas Metal Arc Welding	4.00
WEL:365	Flux Core Arc Welding & Metal Cutting	3.00
		<u>16.00</u>

Fundamental Welding, Certificate Total16.00

General Maintenance Welding, Certificate

No longer accepting students into this program.

TERM 1

CSC:112	Computer Fundamentals for Technicians I/A	2.00
CSC:113	Computer Fundamentals for Technicians I/B	2.00
ELE:101	Industrial Safety	1.00
MAT:733	Math for Technologies A	1.50
MAT:734	Math for Technologies B	1.50
MFG:192	Blueprint Reading	3.00
WEL:126	Shielded Metal Arc Weld-Basic [4.75 credits] OR	4.75
WEL:274	Shielded Metal Arc Welding I: SENSE1 [3.00 credits] AND	
WEL:275	Shielded Metal Arc Welding II: SENSE1 [3.00 credits]	
WEL:129	Gas Metal Arc Welding-Basic [4.25 credits] OR	4.25
WEL: 256	Gas Metal Arc Welding Basic [4.50 credits]	
		<u>20.00</u>

TERM 2

EGT:133	Hydraulics/Pneumatics I	2.00
ELE:115	Basic Electricity I	2.00
WEL:136	Oxy-Acetylene Welding and Cutting	4.25
		<u>8.25</u>

Term 2 Optional Course

WEL:259	Oxy-Acetylene Arc Welding	1.00
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General Maintenance Welding, Certificate Total.....28.25

Production Welding, Certificate

TERM 1

MAT:733	Math for Technologies A	1.50
MAT:734	Math for Technologies B	1.50
MFG:186	Plant Safety	1.00
MFG:192	Blueprint Reading	3.00
WEL:123	Welding Symbols	1.00
WEL: 256	Gas Metal Arc Welding	4.50
WEL:416	Advanced Gas Metal Arc Welding (GMAW)	2.00
		<u>14.50</u>

TERM 2

WEL:257	Flux Core Arc Welding	2.50
WEL:259	Oxy-Acetylene Arc Welding	1.00
		<u>3.50</u>

Production Welding, Certificate Total18.00

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Structural Welding, Certificate

No longer accepting students into this program.

TERM 1

MAT:733	Math for Technologies A	1.50
MAT: 734	Math for Technologies B	1.50
MFG:186	Plant Safety	1.00
MFG:192	Blueprint Reading	3.00
WEL:259	Oxy-Acetylene Arc Welding	1.00
WEL:274	Shielded Metal Arc Welding I: SENSE 1	3.00
WEL:275	Shielded Metal Arc Welding II: SENSE 1	3.00
		<u>14.00</u>

TERM 2

WEL:215	Shielded Metal Arc Weld- Adv I	5.00
WEL:257	Flux Core Arc Welding	2.50
WEL:258	Shielded Metal Arc Welding Advanced II	5.00
		<u>12.50</u>

Structural Welding, Certificate Total26.50

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Admissions Officer

Andrew Snyder

asnyder@eicc.edu
(563) 288-6007
FAX (563)288-6014

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