

### Program Information

The Anoka Technical College Welding Technology diploma is a 34-credit program (the 34 total credits include 17 credits from the Basic Welding certificate) specifically designed to develop exceptional welding skills utilizing the major welding processes that are vital to industry.

The Welding Technology diploma integrates theory with technical skills. Through the rigorous curriculum students will develop fundamental knowledge of GMAW, GTAW, SMAW and Oxy fuel welding processes. Blueprint and math ability are incorporated in the coursework. Students will also learn metal comprehension, industry safety practices and related equipment applications.

### Certification

The Welding program not only provides students with a thorough background in welding and related theory, but also prepares students with the knowledge and skills needed to take the national certification examination:

- American Welding Society’s Welding Code

### Prerequisites

Some courses may require an Accuplacer/ACT score or completion of basic math, basic English, and/or reading courses with a “C” or better.

### Graduation Requirements

All Anoka Technical College students seeking an Associate in Applied Science (AAS) degree, diploma, or certification must meet the grade-point average (GPA) of 2.0 or higher. Please contact your advisor for any further program graduation requirements.

### Transfer Opportunities

To see how credits from this program may transfer into other Anoka Technical College programs or into a program at another college, visit:

- [Minnesota Transfer](http://www.mntransfer.org/students/plan/s_agreements.php?numResults=25&archive=false&from_inst=70&from_prog=&to_inst=&Search=Search): (www.mntransfer.org/students/plan/s\_agreements.php?numResults=25&archive=false&from\_inst=70&from\_prog=&to\_inst=&Search=Search)
- [Anoka Technical College transfer student](http://www.anokatech.edu/BecomeStudent/Transfers.aspx): (www.anokatech.edu/BecomeStudent/Transfers.aspx)

### Industry Information

The diversification of the welding industry impacts virtually every industry around the globe. From the depth of the world’s oceans to the far-reaching corners of outer space, there is a welding position for every hardworking, ambitious, smart individual who is ready and willing to constantly improve and striving for excellence.

A career choice in welding offers a vast array of options for employment and continuing personal development. Welding is the most common way to permanently join metal parts. Heat is applied

to the pieces that are being joined; melting and fusing them together which forms a permanent bond.

Therefore, welding plays a key role in industry production lines, laboratories, research and development, national defense, sales and service, NASCAR and drag racing, custom motorcycle building, artwork, sculptures, pipelines, power plants, refineries, construction, maintenance, repair and much more.

### Wages/Outlook/Advancement

Welders and solderers can advance to more skilled jobs with additional training and experience. For example, experienced welders may become technicians, supervisors, inspectors, or instructors. Other experienced welders and solderers open their own repair shops.

Wage information is available from the Minnesota Department of Education and [Minnesota Department of Employment and Economic Development](http://mn.gov/deed/job-seekers/job-outlook/index.jsp) (<http://mn.gov/deed/job-seekers/job-outlook/index.jsp>).

### Gainful Employment

Follow this link for a [Gainful Employment Report](#).

### Technical Education: 34 Credits

#### Basic Welding Certificate .....17 Credits

- WELD 1002 Math for Welders ..... 1
- WELD 1004 Oxy-Fuel Applications..... 1
- WELD 1006 Oxy-Fuel Processes ..... 1
- WELD 1008 Blueprint Reading I..... 2
- WELD 1012 Processes and Power Sources I..... 3
- WELD 1014 Gas Tungsten Arc Welding I ..... 3
- WELD 1016 Gas Metal Arc Welding I ..... 3
- WELD 1018 Shielded Metal Arc Welding I..... 3

#### Additional Credits Required for Diploma .....17 Credits

- WELD 1022 Blueprint Reading II ..... 3
- WELD 1024 Metals Theory I..... 2
- WELD 1026 Processes and Power Sources II ..... 3
- WELD 1028 Gas Tungsten Arc Welding ..... 3
- WELD 1034 Gas Metal Arc Welding II..... 3
- WELD 1036 Shielded Metal Arc Welding II ..... 3

*Also see: Welding AAS degree, Basic Welding certificate, Fabricator certificate and Pipe Welding certificate*

### Start Dates

Fall Semester.....August

### Faculty Contact

- [Jay Gerdin](#) ..... 763-576-4055
- [Rich Godeen](#)..... 763-576-4122
- [Lisa Glendower](#)..... 763-576-4086

For information on how to apply, to schedule a tour, or for service during summer hours, contact Enrollment Services at 763-576-7710 or [EnrollmentServices@anokatech.edu](mailto:EnrollmentServices@anokatech.edu)



(continued)

2016-2017

# Welding Technology

Diploma

## Sample Program Sequence:

Full Time

1 <sup>st</sup> YEAR	Fall Semester	Spring Semester
	WELD 1002 ..... 1	WELD 1022 ..... 3
WELD 1004 ..... 1	WELD 1024 ..... 2	
WELD 1006 ..... 1	WELD 1026 ..... 3	
WELD 1008 ..... 2	WELD 1028 ..... 3	
WELD 1012 ..... 3	WELD 1034 ..... 3	
WELD 1014 ..... 3	WELD 1036 ..... 3	
WELD 1016 ..... 3	<b>TOTAL ..... 17</b>	
WELD 1018 ..... 3		
<b>TOTAL ..... 17</b>		

