2014-2015

Welding Technology

Diploma

TOTAL CREDITS 34

Program Information

The Anoka Technical College Welding Technology diploma is a 34-credit program (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 also incorporated in the coursework. In addition, students will learn metal comprehension, industry safety practices and related equipment applications.

Prerequisites

Although no prior knowledge or experience is necessary to succeed in Anoka Technical College Welding program, prospective students should have a high school diploma or GED, good physical health and stamina, good hand-eye coordination and manual dexterity.

Students should be able to lift a 60-pound spool of wire and a 50-pound box of welding rods and should be able to pass an industrial physical examination (requirements may vary). This 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 pass the American Society of Mechanical Engineers, the American Petroleum Institute and the American Welding Society's welding code certification examinations.

Accuplacer Test Requirement: Accuplacer testing in math, reading and writing. Any needed developmental courses must be completed before receiving a diploma or an AAS award.

Graduation Requirements

All Anoka Technical College students must demonstrate basic competency in Math, English, and Reading. Competency may be demonstrated through achieving minimum cut scores in new student assessments (Accuplacer); through other assessment exemptions; or through successful completion of Basic Math, Basic English, and Reading courses, earning a "C" or higher before receiving a diploma or an associate in applied science degree.

Also see graduation standards in Anoka Technical College *Student Handbook*.

NOTE: Program plans are subject to change. Please contact your program advisor for the most current program information.

Transfer Opportunities

To see how this program transfers to other programs, review the Anoka Tech articulation agreements at Minnesota Transfer. Articulation agreements are transfer agreements with specific programs and partnering schools. These agreements detail how specific courses transfer to a specific program at the partnering school. For a complete list of Anoka Tech's articulation agreements listed by program please see this Minnesota Transfer link.

This program may also include Minnesota Transfer Curriculum (MnTC) courses. MnTC courses transfer to meet MnTC general education courses throughout the Minnesota State Colleges and Universities (MnSCU) system. MnTC courses from Anoka Technical College transfer to any MnSCU institution to meet the same goal areas that are met at Anoka Tech. Students are encouraged to contact the Office of Records and Registration at all transfer schools for details about the institution's transfer process and policies.

For more information please visit our Transfer page

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 associate in applied science (AAS) degree, Basic Welding certificate, Fabricator certificate and Pipe Welding certificate***

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 the Minnesota Department of Employment and Economic Development.

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This information is available in alternative formats by calling 763-576-4069. TTY users can call Minnesota Relay at 800-627-3529 • A member of the Minnesota State Colleges and Universities System • Anoka Technical College is an equal opportunity, affirmative action employer and educator. Accredited by the Higher Learning Commission.

ANOKA TECHNICAL COLLEGE

Anoka Technical College
1355 West Highway 10
Anoka, MN 55303
763-433-1100
AnokaTech.edu

Rev. 4/2014

2014-2015

Welding Technology

Diploma

TOTAL CREDITS.....34

Start Dates

Fall Semester ..... August

Faculty Contact

Jay Gerdin 763-576-4055
Rich Godeen 763-576-4122
Joe Ferdelman.....763-576-4068
For service during summer hours contact Enrollment Services 763-576-7710

For information on how to apply or to schedule a tour, please contact Admissions by phone 763-576-7710 or by email at info@anokatech.edu

Sample Program Sequence

Full Time

	Fall Semester	Spring Semester
FIRST YEAR	WELD 1002 .....1 WELD 1004 .....1 WELD 1006 .....1 WELD 1008 .....2 WELD 1012 .....3 WELD 1014 .....3 WELD 1016 .....3 WELD 1018 .....3 **TOTAL..... 17**	WELD 1022 .....1 WELD 1024 .....1 WELD 1026 .....1 WELD 1028 .....2 WELD 1034 .....3 WELD 1036 .....3 **TOTAL..... 17**

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