

Minnesota

Articulated College Credit (ACC) Agreement

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Articulated College Credit Agreement

Through Articulated College Credit (ACC), specific college curriculum learning outcomes and assessments are embedded in participating high school career and technical education (CTE) programs as specified in this agreement. Relevant knowledge, skills, and standards are taught by qualified CTE high school instructor(s) in one or more high school course. ACC is awarded if the student meets the college equivalency standards and later enrolls in the college(s) listed below requiring the course in a specific program.

Agreement Name: **Blueprint Reading for Welders – Lecture**
Agreement Reviewed/Revised: **2023 – 2024**

These credits are valid for students in grades 10-12 for 5 years from the completion of this course.

| College(s) | College Course(s) | College Programs | Articulated College Credit |
|-------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Anoka Technical College | WELD 1008 – Blueprint Reading I | Welding (A.A.S. –66 cr.) Welding Technology (Diploma – 34 cr.) Basic Welding (Cert. – 17 cr.) Robotic and Laser Welding (A.A.S. – 67 cr.) | 2 credits of 2 credits |

Course Description

This course covers basic lines, basic views, title block information, notes and specifications, dimensions, structural shapes, auxiliary views, section views, detailed and assembly prints, and welding symbols blueprint information. Application of blueprint reading will be applied to weld fabrication projects which include use of Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding (SMAW), Gas Tungsten Arc Welding (GTAW), and Oxy-Fuel cutting and brazing.

Curriculum Learning Outcomes

100% of the curriculum learning outcomes will be covered in the high school course(s) by qualified CTE high school instructor(s).

Outline of Major Content Areas

1. Weld symbols
2. Blueprint reading
3. Basic blueprint application and fabrication

Learning Outcomes

- ☐ Determine the position of welding for groove and fillet welds on plate and pipe.
- ☐ Illustrate title block and basic views.
- ☐ Interpret weld symbols.
- ☐ Generate drawings with basic views and weld symbols.
- ☐ Demonstrate placement of welds on fabrication project.
- ☐ Explain different types of dimensioning.

Assessments

To obtain Articulated College Credit, students must complete the course examinations and assignments at their high school with an **80% or higher**.

Recommended Industry-Recognized Certification or Comprehensive Assessment – High School & College

| Certification/ Assessment | Vendor | Other Information |
|---------------------------|--------|-------------------|
| To Be Determined | | |
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