

Minnesota

Articulated College Credit (ACC) Agreement

www.CTEcreditMn.com

Agreement Name: **Machine Trades Print Reading**

Agreement Last Reviewed: **Fall 2023**

Next Review Date: **Fall 2025**

College Courses

Class	Title	School	Credits	
MACH 1410	Print Reading & Precision Measurements	Minnesota West Community & Technical College	1.0	of 2.0
DRFT 1503	Interpreting Engineering Drawings	Ridgewater College	2.0	of 2.0
MACT 1005	Blueprint Reading for Machinists	Ridgewater College	1.0	of 2.0
MTT 1130	Job Planning, Benchwork & Layout Level 1	South Central College	2.0	of 3.0

Curriculum Content Objectives

To receive credit, 100% the following content objectives will be covered:

1. Interpret orthographic drawings
2. Interpret pictorial drawings
3. Draw pictorials from orthographic drawings
4. Draw orthographic drawings from pictorials
5. Define/draw the alphabet of lines
6. Identify the alphabet of lines as used on drawings
7. Identify primary views
8. Interpret three types of dimensional notations used on drawings (i.e., typical radius, surface finish, bolt hold pattern call out)
9. Identify fractional, decimal, and angular tolerances
10. Interpret auxiliary views
11. Interpret sectional views
12. Identify materials listed on drawings
13. Interpret screw thread designations used on drawings (unified and metric)
14. Interpret tolerance block information
15. Interpret title block information
16. Describe multi-view layout
17. Explain the SAE (i.e., 1018 CRS, 303 stainless, 6020 aluminum) materials numbering system
18. Interpret bolt hole circles
19. Explain different types of dimensioning (i.e. ordinate, tabular, coordinate, and chain dimension)

Assessments

Students must achieve no less than 80% or B for a final grade in the high school course to receive ACC.

ACC Concept

Through Articulated College Credit (ACC), specific college curriculum content goals 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 requiring the course in a specific program.