

Minnesota Articulated College Credit (ACC) Agreement

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Agreement Name: **Machinery Assembly and Reconditioning**

Agreement Last Reviewed: January 2023

Next Review Date: January 2025

College Courses

Class	Title	School	Credits
AGRI 2100	Farm Shop Repair	Ridgewater College	1.0 of 2.0
AGME 1812	Equipment Assembly, Operation, Adjustment and Reconditioning I	South Central College	2.0 of 2.0
AGME 1813	Equipment Assembly, Operation, Adjustment and Reconditioning II	South Central College	2.0 of 2.0

Curriculum Content Objectives:

To receive credit, students will cover 100% of the following content objectives:

Machinery Assembly Component*:

1. Identify and demonstrate safety procedures
2. Explain Machine Assembly Procedures
3. Explain set-up manual instruction
4. Explain operator manual instruction
5. Explain checksheet procedures
6. Check machine parts/checksheet
7. Identify parts storage
8. Identify shortage/warranty procedure
9. Mount tires
10. Demonstrate hand tool usage
11. Explain machine set-up/job ticket
12. Assemble equipment base frame
13. Assemble rockshaft/wheel components
14. Assemble machine extensions
15. Determine attachment spacing
16. Install attachments
17. Torque machinery fasteners to specifications
18. Install cylinders/hoses
19. Bleed/charge hydraulic system
20. Mount decals and slow-moving vehicle signs
21. Install warning lights
22. Identify and adjust wheel spacing
23. Lubricate machine

24. Troubleshoot machine
25. Touch-up paint on machine
26. Complete pre-delivery checksheet

Machinery Reconditioning Component*:

1. Identify and demonstrate safety procedures
2. Explain machinery reconditioning procedure
3. Identify worn parts
4. Determine repair estimates
5. Look up repair part numbers
6. Replace/rebuild worn component
7. Demonstrate proper machinery support
8. Repair bent/broken frames
9. Repack wheel bearings
10. Demonstrate installation of heli-coils
11. Demonstrate installation of keenserts
12. Demonstrate tap and die procedures
13. Demonstrate chaining/binding prior to moving the equipment
14. Demonstrate machinery repair/job ticket
15. Lubricate machine
16. Check machine operation
17. Explain tire mounting procedure
18. Demonstrate bearing replacement

*Forklift certification is required of South Central College (SCC) students taking the Equipment Assembly, Operation, Adjustment & Reconditioning courses. This certificate is available at SCC.

*Ridgewater College offer CASE Equipment Certifications.

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 below requiring the course in a specific program.