

Minnesota

Articulated College Credit 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 courses. 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: MN Automotive Service
Agreement Reviewed/Revised: Fall 2024

These credits are valid for students in grades 9-12 for 5 years from the completion of this course.

College(s)	College Course(s)	College Programs	Articulated College Credit
Anoka Technical College	AUTO 1010 - General Automotive Service	Automotive Technician (A.A.S.- 72 cr.; Diploma - 60 cr.)	1 credit of 2 total credits
Hennepin Technical College	ATEC 1050 – Introduction to Automotive Technology	Automotive Technician (A.A.S.- 72 cr.; Diploma - 65 cr.)	1 credit of 2 total credits
St. Cloud Technical & Community College	TRAN 1503 – General Service	Automotive Service Technician (A.A.S. – 72 cr.; Diploma – 67 cr.)	3 credits of 3 credits
St. Cloud State University	ETS 1 – Technical Elective Credit	Environmental & Technological Studies Department Teaching Majors	3 credits of 3 credits
Minnesota West Community & Technical College	TRAN 1100 Introduction to Transportation	Automotive Technician (Diploma – 35 cr.)	1 credit of 2 credits
Ridgewater College	AUTO 1104 Vehicle Maintenance	*Automotive Service Technology (A.A.S. – 72 cr.) *Automotive Service Technology (Diploma – 65 cr.)	2 credits of 4 total credits
South Central College	AST 1112 Introduction to Automotive Service OR ABCT 1840 Auto Collision Mechanical I	*Automotive Service (A.A.S. – 72 cr.) *Automotive Service (Diploma – 64 cr.) OR *Auto Body & Collision Technology (A.A.S. – 72 cr.)	1 credit of 2 total credits OR 1 credit of 3 total credits
Rochester Community & Technical College	AMT 1710 Auto Service Theory	*Automotive Mechanic Technician (Diploma – 67 cr.)	1 credit of 2 credits

Course Description

This course covers the correct procedures for servicing vehicles, shop safety and the use of service resources, such as service manuals, bulletins and electronic information systems. Students will learn about tools and equipment usage and related trade knowledge, including basic systems, services and components. Students will demonstrate safe working habits and exhibit classroom work habits and ethics consistent with occupational standards. This course introduces the student to shop safety, shop skills and terminology for automotive service and maintenance. Information will be presented through lecture, demonstration, text and service manuals.

Curriculum Learning Outcomes:

80% of the curriculum learning outcomes will be covered in the high school course(s) by qualified CTE high school instructor(s).

Objectives 1 – 20 are required for articulation.

1. Demonstrate professional automotive technician behavior, attendance and participation.
2. Demonstrate understanding of ASE standards.
3. Demonstrate shop safety, first aid and OSHA recommended waste disposal.
4. Examine waste handling procedures and comply with EPA and MPCA regulations.
5. Identify service intervals and perform vehicle safety inspections.
6. Identify vehicle identification number (VIN).
7. Check fluid levels.
8. Tap/repair threads.
9. Demonstrate safe vehicle lifting procedures.
10. Identify and use various automotive fasteners.
11. Identify hand and power tools.
12. Perform safe and proper use of basic hand tools.
13. Use micrometer: metric and English.
14. Identify tire construction.
15. Identify zerk fittings.
16. Inspect wheel bearings.
17. Perform vehicle safety inspection.
18. Demonstrate proper use of torque devices.
19. Perform minor lubrication and tire services.
20. Relate the function and operation of basic engine and transmission systems.

Objectives 21 - 31 are encouraged.

21. Solder wires.
22. Perform safe MIG welder operation.
23. Perform safe acetylene torch operation.
24. Mount, dismount, balance and perform tire repair.
25. Replace cooling hoses and belts.
26. Service cooling system.
27. Perform battery safety, testing, diagnostics and charging.
28. Inspect exhaust system.
29. Replace fuses/bulbs and circuit protection devices.

30. Complete work order to include customer information, VIN, customer concern, related service history, cause and correction.
31. Research applicable vehicle and service information and TSB.

Students will demonstrate safe working habits and exhibit classroom work habits and ethics consistent with occupational standards. These courses introduce the student to shop safety, shop skills and terminology for automotive service and maintenance. Information will be presented through lecture, demonstration, text and service manuals.

Course Assessments:

- In the shop and under the observation of the teacher, students will perform all assessments as indicated. The teacher will use a checklist to check-off as the student accomplishes each item. When the student has satisfactorily completed an area, the teacher will initial the area.
- The student must obtain an **80% score or higher** on each outcome area of the worksheet. Each performance of the student must be complete and accurate to be checked-off.

Recommended Comprehensive Assessments – High Schools & Colleges

Comprehensive Assessments	Vendor	Additional Information
Automotive Service, Introduction (505)	Precision Exams	https://www.precisionexams.com/minnesota/files/standards-pdfs/(505E)ks.pdf
SP2 – Automotive Service Safety	SP2	https://sp2.org/automotive-schools
SP2 – Automotive Service Pollution Prevention	SP2	https://sp2.org/automotive-schools/