

Saint Paul Consortium

Articulated College Credit (ACC) Agreement

www.CTEcreditMn.com

Agreement Name: SPC Automotive Engine Theory & Repair

Agreement Last Reviewed: 2017

Next Review Date: 2019

College	Course Name	Course Prefix	Course Number	Course Credits
Saint Paul College	Engine Theory & Repair	AUTO	2430	1 of 4

Covers disassembly, inspection, repair and reassembly of the internal combustion engine. Repair procedures such as the replacement of piston ring, engine bearings and valve grinding are covered.

Curriculum Content Objectives:

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

1. Students will be able to demonstrate class participation.
2. Students will be able to demonstrate the use of personal protective equipment and shop safety.
3. Students will be able to describe engine operation and construction.
4. Students will be able to define engine measurements and performance characteristics.
5. Students will be able to evaluate engine condition and abnormal engine noises.
6. Students will demonstrate the ability to disassemble an engine, inspect and measure critical internal components, and reassemble the engine.
7. Students will demonstrate the ability to disassemble a cylinder head and perform valve grinding procedures.
8. Students will demonstrate the ability to perform other engine mechanical procedures including leak diagnosis/repair and timing belt replacement.
9. Students will be able to describe engine lubrication and cooling systems and perform needed service

Assessments:

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

ACC Concept:

Skills for selected courses, required for graduation in programs at the colleges participating in this regional agreement are taught in our schools using the assessments developed collaboratively by secondary and post-secondary staff. High School credit is earned and college credits are earned if the student meets the college achievement.