

Lake Superior College

ASTE 1450: Engine Service

A. COURSE DESCRIPTION

Credits: 5

Lecture Hours/Week: 2

Lab Hours/Week: 6

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers the fundamentals of engine operation, repair, and maintenance. The procedures for rebuilding, precision measurement, parts and failure identification will be presented. Cylinder block and head disassembly and repair will be performed. (Prerequisites: ASTE1400 or instructor's consent) (2 hrs lec/6 hrs lab/0 hrs OJT)

B. COURSE EFFECTIVE DATES: 04/10/1998 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. exhibit professional behaviors and function safely in the automotive lab
2. identify engine system service tools and equipment
3. describe engine theory
4. identify engine terms and components
5. describe cooling system tests
6. perform cooling system tests
7. analyze cooling systems tests
8. perform exhaust system repair
9. perform engine disassembly procedures
10. identify engine precision measurements
11. perform engine precision measurements
12. analyze engine precision measurements
13. identify engine mechanical repairs
14. perform engine mechanical repairs
15. perform engine assembly procedures

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted