A. **Course Description**

- **Credits:** 3.00
- **Lecture Hours/Week:** 1.00
- **Lab Hours/Week:** 2.00
- **OJT Hours/Week:** 0
- **Prerequisites:** None
- **Corequisites:** None
- **MnTC Goals:** None

This course includes component identification, testing procedures, problem analysis, valve and injection adjustment, pump replacement, and engine tune-up. Prerequisites: none

B. **Course Effective Dates:** 8/21/03 – Present

C. **Outline of Major Content Areas**

As noted on course syllabus

D. **Learning Outcomes**

1. Demonstrate engine timing techniques.
2. Demonstrate shop safety practices.
3. Demonstrate use of hand tools, specialized tooling, and specialized equipment.
4. Determine compression loss sources.
5. Exhibit professionalism.
6. Explain diesel fuel pump operation.
7. Explain diesel fuel systems.
8. Perform diesel engine diagnostic tests, including emission systems.

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

F. **Learner Outcomes Assessment**

As noted on course syllabus

G. **Special Information**
None noted