Minnesota State College Southeast

INDS 1640: Small Engine Basics

A. COURSE DESCRIPTION
   Credits: 3
   Lecture Hours/Week: 2
   Lab Hours/Week: 2
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None

   Small engine basics present the basic engine fundamentals common to all small engine designs. Topics
   covered include internal combustion systems, engine electrical systems, governor on systems,
   troubleshooting, failure analysis, and engine application and selection. Overall, system operation theory
   will be reinforced with engine component and system examples. (Prerequisite: None) (3 credits: 2
   lecture/1 lab)

B. COURSE EFFECTIVE DATES:  09/13/2000 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)
   1. Describe and identify internal combustion engines
   2. Perform and describe safety and tools
   3. Diagnose engine operation
   4. Test and diagnose compression system
   5. Test and service fuel systems
   6. Describe and diagnose governor systems
   7. Complete midterm exam
   8. Diagnose and test electrical system
   9. Test and service cooling and lubrication system
   10. Diagnose and service multiple cylinder engines
   11. Test and perform troubleshooting procedures
   12. Diagnose engine failure
   13. Identify and describe engine application and selection
   14. Complete final exam

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted