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 auxiliary systems and transmissions coursework designed to enhance the technician's abilities to perform routine maintenance, overhaul, and troubleshooting on drive components of the engine operated equipment. These areas of study will include suspension, transmissions, steering, axles, safety interlocking systems, and auxiliary systems maintenance. Instruction will be given in proper storage, and removal from storage of engine operated equipment. Enhanced troubleshooting and failure analysis will be included in an environment of hands-on learning. (Prerequisite: INDS1640) (3 credits: 2 lecture/1 lab)

B. COURSE EFFECTIVE DATES: 01/05/2001 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

  1. Basic drive systems
  2. Centrifugal clutches
  3. Belt tension drive
  4. Cut systems
  5. Gear to gear units
  6. Hydrostatic drive systems
  7. Magnetic clutches
  8. Power take off systems
  9. Hydraulic systems
 10. Engagement systems
 11. Transaxle designs
 12. Drive shaft service
 13. Power steering assist
 14. 4 wheel steering
 15. Articulated drive systems
 16. Locking differentials
 17. Traction control systems

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

 None
F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted