Alexandria Technical and Community College

MGEM 1625: Snowmobile II

A. COURSE DESCRIPTION
   Credits: 4
   Lecture Hours/Week: 3
   Lab Hours/Week: 2
   OJT Hours/Week: *.*
   Prerequisites:
   This course requires the following prerequisite
   MGEM 1623 - Snowmobile I (Number of Years Valid: 5)
   Corequisites: None
   MnTC Goals: None
   This course covers snowmobile maintenance on suspension systems including high pressure gas shock rebuilding and chassis adjustments. It also covers electrical repairs and tune ups as they apply to snowmobiles. Learners are exposed to different manufacturers’ test equipment.

B. COURSE EFFECTIVE DATES: 04/26/2021 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Identify parts of a snowmobile suspension.
   2. Demonstrate removal and re-installation of suspension systems.
   3. Describe suspension maintenance and adjustments.
   4. Perform the proper procedures needed to service a take apart style shock.
   5. Demonstrate removal and installation of track drive systems.
   6. Identify brake system components.
   7. Demonstrate ski alignment procedures.
   8. Examine the history of snowmobile electrical systems.
   9. Perform electrical diagnostics basic to advanced.
   10. Demonstrate safe practice.

D. LEARNING OUTCOMES (General)
   1. The learner will demonstrate suspension service.
   2. The learner will demonstrate drive system service.
   3. The learner will perform maintenance adjustments on snowmobiles.
   4. The learner will diagnose and estimate repairs for customer work order.

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

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted