Alexandria Technical and Community College

MGEM 1623: Snowmobile I

A. COURSE DESCRIPTION
   Credits: 4
   Lecture Hours/Week: 3
   Lab Hours/Week: 2
   OJT Hours/Week: *. *
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None
   This course is an introduction to snowmobiles including the study of engine theory as it applies to
   snowmobiles, fuel systems, and drive system inspection and repair. Pre-requisite: Must successfully
   complete all prior MGEM courses.

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

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Examine the history of snowmobiles.
   2. Define fuel and lubrication systems as it pertains to snowmobiles.
   3. Describe fuel delivery systems.
   4. Identify carburetor circuits.
   5. Identify fuel injection components.
   6. Describe drive and driven clutch theory.
   7. Identify drive and driven clutch operation.
   8. Demonstrate the use of tools and test equipment in a safe manner.

D. LEARNING OUTCOMES (General)
   1. The learner will identify 2-cycle engine components.
   2. The learner will perform carburetor repairs and adjustments on 2-cycle engines.
   3. The learner will demonstrate knowledge of proper fuel and lubrication requirements for 2-cycle
      engines.

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

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted