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SET 181.01: Snowmobile Maintenance and Repair II

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COURSE NUMBER AND TITLE: SET 181T Snowmobile Maintenance and Repair II

DATE REVISED: 2010

SEMESTER CREDIT: 2

CONTACT HOURS PER SEMESTER: 62 (2 ½ week class)
   Lecture hours per week: 10
   Lab hours per week: 15

PREREQUISITES: SET 180T Snowmobile Maintenance and Repair I

INSTRUCTOR: Mike Steffenson
E-mail: michael.steffenson@mso.umt.edu
Phone: 406-243-7693
Office Location: T & T II, West Campus
Office Hours: By appointment OR as posted on Faculty Office Door

RELATIONSHIP TO PROGRAM:
Recreational Power Equipment technicians must have the fundamental knowledge and skills necessary to service and repair snowmobiles. This course, along with the prerequisites, provides the foundation necessary for entry level technicians to be successful on the job.

COURSE DESCRIPTION:
Principles and theory of snowmobile electrical, fuel, front suspension, and brake systems.

STUDENT PERFORMANCE OUTCOMES:
Occupational Performance Objectives
Upon completion of this course, the student will be able to:
1. Remove, inspect, and replace a drive clutch
2. Remove, inspect, and replace a driven clutch
3. Adjust drive clutch for proper shifting
4. Adjust a mechanical brake and bleed hydraulic brake
5. Remove, repair, and replace carburetors
6. Synchronize multi-carburetor systems
7. Synchronize an oil pump with the carburetor
8. Prepare a snowmobile for storage

REQUIRED TEXTBOOK: No text is required at this time.

REQUIRED SUPPLIES: Digital multi-meter with a minimum of 10 amp DC capabilities.
STUDENT PERFORMANCE ASSESSMENT METHODS AND GRADING PROCEDURES:
The following criteria will be used for grading this course:
1. Written Tests 30%
2. Lab 55%
   a. Accuracy and quality of required worksheet completion
   b. Good use of lab time and following instructions
   c. Use of shop manuals and forethought
3. Complete, neat and organized notebook of all handout materials and notes 5%
4. Demonstrating skills on a daily basis 5%
5. Lab organization, management, and neatness 5%

Safety:
1. College of Technology safety rules will be followed at all times. Each student will receive a copy of the safety rules. A copy of the rules are posted on the classroom bulletin board.
2. Safety glasses will be worn at ALL times when working in the lab, and in the classroom when working with storage batteries, chemicals, and when soldering.
3. Failure to follow the rules can result in removal from class.

GRADING SCALE:
A= 93-100
B= 86-92
C= 75-85
D= 65-74
F= Below 65

ATTENDANCE POLICY:
1. If a student will not be able to attend class, the instructor MUST be called at 243-7693 to notify the instructor of the absence.
2. The student is responsible to make-up all assignments, lab work, etc. missed during the absence.
3. Test dates and times will be announced in advance.
4. There will be no make-up tests except for extreme extenuating circumstances.

EXPECTATIONS FOR STUDENT SUCCESS IN THE RPE PROGRAM:
1. Attitude is everything
2. Regular attendance is critical; tardiness is unacceptable.
3. Take good notes.
4. Pay attention.
5. Study all assigned material on a regular basis and for tests

HOW VARIOUS ASSESSMENT METHODS WILL BE USED TO IMPROVE THE COURSE:
1. Student course evaluations
2. Peer feedback
3. Advisory committee feedback

ACADEMIC INTEGRITY: All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at http://www.umt.edu/SA/VPSA/index.cfm/page/1321.
DISABILITY ACCOMMODATION: Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please contact me after class or in my office. Please be prepared to provide a letter from your DSS Coordinator. For more information, visit the Disability Services website at http://www.umt.edu/dss/ or call 406.243.2243 (Voice/Text).

NOTE: Faculty reserves the right to modify syllabi and assignments as needed based on faculty, student, and/or environmental circumstances.

COURSE OUTLINE:
1. Clutches (Drive and Driven)
   A. Terms and definitions
   B. Components
   C. Adjustment
   D. Lubrication and cleaning
   E. Troubleshooting
2. Engines
   A. Systems
      1. Lubrication
      2. Cooling
   C. Carburetors and systems
   D. Engine service
3. Brakes
   A. Terms
   B. Types
      1. Disc
      2. Drum
   C. Service
      1. Adjustments
      2. Bleeding
4. Storage
   A. Terms
   B. Preparation
      1. Engine
      2. Battery
      3. Chassis
      4. Track and suspension
   C. Storage removal