



**DEPARTMENT OF MOTORCYCLE AND RECREATIONAL POWERSPORTS**

**COURSE OUTLINE – WINTER 2013, SEMESTER 2**

**JANUARY 7 – MARCH 28, 2013**

**MCM 200 THEORY II – 7 CREDITS 120 HOURS**

**INSTRUCTOR:** Dan Bruce  
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Monday through Friday.  
**OFFICE HOURS:** 8:00 – 5:00 p.m.

**PREREQUISITE(S)/COREQUISITE:** MCM 100.

**REQUIRED TEXT/RESOURCE MATERIALS:**

Alberta Apprenticeship and Industry Training Individual Learning Modules  
Shop Procedures Package:

090101aA	Communication – Part A
090101aB	Communication – Part B
090101b	Measuring Tools
090101c	Specialty Hand Tools
090101d	Fastening Devices
090101e	Safety
150101n	Hand Grinding Machines
150101o	Drilling Machines
190101f	Oxy-Fuel Equipment, Heating and Cutting

## **REQUIRED TEXT/RESOURCE MATERIALS (continued):**

### Other Textbooks:

Modern Motorcycle Technology (text and workbook)

Edward ABDO – Delmar

### Other Required Supplies:

- 3-ring binder(s) (3")
- loose leaf paper
- pencils
- eraser, etc.
- pens
- calculator (non-programmable CASIO fx-260)

Apprenticeship Prior Learning Assessment Fee: \$150 fee (currently under review) for assessment to write 2<sup>nd</sup> Year Apprenticeship Exam in Winter, 2013 term.

**CALENDAR DESCRIPTION:** Subjects covered in Theory II include: charging, starting and ignition systems, four-stroke top end diagnosis, inspection and reconditioning, transmission operation, clutch and primary drive designs, two-stroke and roller bearing crankshaft inspection and repair, plain bearing crankshaft inspection.

Delivery Option – Fairview Campus Only

**CREDIT/CONTACT HOURS:** 7 credits; 10 hours per week; 12 weeks; 120 hours.

**DELIVERY MODE(S):** Instructor led classroom theory.

**OBJECTIVES:** The Pre-Employment Motorcycle Mechanic program has been developed to provide students with entry level skills in the motorcycle mechanic technologies and provide pre-apprenticeship opportunities for those who may be interested in pursuing apprenticeship.

### **Motorcycle Mechanic Training Goal**

#### **I. PROFICIENT**

- A. A thorough competence derived from training and practice (skilled).
  - 1. COMPETENCE – having suitable or adequate ability.
  - 2. ABILITY – physical and/or mental power to perform.
- B. Well advanced in an occupation or branch of knowledge.

#### **II. OCCUPATION**

- A. An activity serving as one's regular employment.

### III. PRACTICE

- A. To perform or work at repeatedly to become proficient (acquire skill).
  - 1. SKILL – specialized knowledge and ability.
- B. To do repeated exercises for proficiency.
- C. To pursue a profession actively.
  - 1. PROFESSION – occupation requiring advanced education.

➤ The goal of apprenticeship training is to develop a competent journeyman through a combination of on-the- job and technical training.

**TRANSFERABILITY:** None.

**GRADING CRITERIA:** Students must complete all required courses with a grade point of 2.0 or higher; a percentage of 63% or higher; a “C” letter grade or higher, and no failing grades. A student must pass each course individually in order to receive a Certificate of Achievement in Pre-Employment Motorcycle Mechanic.

Absence for tests or assignment missed will result in a score of zero.

No supplemental tests and/or examinations available.

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A <sup>+</sup>	4.0	90 – 100	EXCELLENT
A	4.0	85 – 89	
A <sup>-</sup>	3.7	80 – 84	FIRST CLASS STANDING
B <sup>+</sup>	3.3	77 – 79	
B	3.0	73 – 76	GOOD
B <sup>-</sup>	2.7	70 – 72	
C <sup>+</sup>	2.3	67 – 69	SATISFACTORY
C	2.0	63 – 66	
C <sup>-</sup>	0.0	60 – 62	FAIL
D <sup>+</sup>	0.0	55 – 59	
D	0.0	50 – 54	
F	0.0	0 – 49	
WF	0.0	0	FAIL, withdrawal after the deadline

## EVALUATIONS:

Areas of Evaluation	Percentage of Total Course Mark
Weekly Tests	40%
Final Exam	45%
Assignment(s)	5%
Attendance	10%

## STUDENT RESPONSIBILITIES:

Please refer to the Student Rights and Responsibilities policy in the Grande Prairie Regional College Calendar or at [www.gprc.ab.ca/downloads/documents/StudentRightsandResponsibilities.pdf](http://www.gprc.ab.ca/downloads/documents/StudentRightsandResponsibilities.pdf)

### PROFESSIONAL CONDUCT

Students are in a public facility and will be expected to act accordingly. This includes: attitude towards others and refraining from use of offensive language. Everyone is entitled to experience a cordial environment. Remember, you are responsible for the attitude you bring to class every day!

GPRC Fairview Campus property is public domain, therefore Alberta traffic rules and laws apply to all parking lots and roadways (enforced by R.C.M.P.).

### ***GPRC TRAINING UNITS ARE NOT TO BE RIDDEN AT ANY TIME!***

Helmet usage is mandatory, and insurance and licensing requirements will be met by all students involved in operating powered vehicles.

### ATTENDANCE

Lack of regular attendance will have a bearing on student evaluation. Regular attendance and punctuality in all courses is mandatory. Failure to maintain the necessary level of attendance may result in the student being withdrawn from the program.

Certain unavoidable absences may be excused by the instructor(s). In such cases the student shall make every effort to inform the instructor(s) prior to an absence. If this is not possible the student shall at the earliest opportunity (next regularly scheduled class) provide a descriptive note explaining the absence. Failing to provide a note or acceptable explanation at the beginning of the next attended class will result in an unauthorized absence. Any missed information is the student's responsibility!

Absence for tests or assignment missed will result in a score of zero.

## ***Absence reporting is solely the student's responsibility!***

Based on a percentage of the total hours in a program involving unauthorized absences (i.e. MCM 100/150 = 480 hours).

1. 2.5% of total hours: Student will be given a verbal warning by the Instructor (12 hours) (to be recorded).
2. 3.75% of total hours: Student will be advised in writing by the Program Leader (18 hours) or designate.
3. 5.0% of total hours: Student may be withdrawn from the program! (24 hours)

## **STATEMENT ON PLAGIARISM AND CHEATING:**

### **ACADEMIC DISHONESTY**

Dishonesty by students will not be tolerated. Any academic dishonesty will result in a score of zero on that test, assignment or lab. Subsequent activity of this nature may be dealt with in a harsher manner. (Subject to Student Conduct Guidelines.)

Refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at [www.gprc.ab.ca/about/administration/policies/](http://www.gprc.ab.ca/about/administration/policies/). These are serious issues and will be dealt with severely.

\*\*Note: all Academic and Administrative policies are available on the same page.

- ***Every effort has been made to ensure the accuracy and completeness of this outline. The instructors will advise students of any necessary changes to the course.***

## COURSE SCHEDULE/TENTATIVE TIMELINE:

### MCM 200/250

**12 Weeks**

**30.0 Hours Per Week**

**360 Hours**

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<b>Week 1</b>	4-Stroke Tune-Up
<b>Week 2</b>	4-Stroke Diagnosis
<b>Week 3</b>	4-Stroke Top End Disassembly and Inspection
<b>Week 4</b>	Clutch and Transmission Inspection and Service
<b>Week 5</b>	Crankshaft Inspection and Service
<b>Week 6</b>	Charging Systems
<b>Week 7</b>	Electric Start and Ignition Systems
<b>Week 8</b>	Practical Testing
<b>Week 9</b>	4-Stroke Reconditioning
<b>Week 10</b>	4-Stroke Reassembly
<b>Week 11</b>	Fuel Injection Introduction
<b>Week 12</b>	Review, Shop Wrap-Up and Final Exam