

**PROGRAM PROPOSAL FORM**

- Preliminary Approval** – Check here when using this form for preliminary approval of a program proposal, and respond to the items in general terms.
- Final Approval** – Check here when completing this form after the Vice President for Instruction has given preliminary approval to a program proposal. For final approval, complete information must be provided for each item.

|  |  |  |  |
|--|--|--|--|
| <b>Program Name:</b>   | <u>Motorcycle Service Technology Advanced Certificate</u>  |  | <b>Program Code:</b><br><br><i>CVMST2</i><br><br><b>CIP Code:</b><br><br><i>470611</i> |
| <b>Division and Department:</b>  | <u>Vocational and Automotive Technologies; Motorcycle Service Technology</u>   |  |  |
| <b>Type of Award:</b>  | <input type="checkbox"/> AA <input type="checkbox"/> AS <input type="checkbox"/> AAS<br><input type="checkbox"/> Cert. <input checked="" type="checkbox"/> Adv. Cert. <input type="checkbox"/> Post-Assoc. Cert. <input type="checkbox"/> Cert. of Comp.   |  |  |
| <b>Effective Term/Year:</b>  | <u>Winter 2008</u>   |  |  |
| <b>Initiator:</b>  | <u>Michael Shute</u>   |  |  |
| <b>Program Features</b><br>Program's purpose and its goals.<br>Criteria for entry into the program, along with projected enrollment figures.<br>Connection to other WCC programs, as well as accrediting agencies or professional organizations.<br>Special features of the program. | <p>The program continues the training of the experienced student in the Motorcycle Service Technology Industry. Building on the Motorcycle Service Technology Certificate, this advanced certificate focuses on engine technology, dynamometer operations, and advanced welding skills. Projected enrollment is 30 students for the first semester based on current interest.</p> <p>The entry level criterion is: completion of the Motorcycle Service Technology Certificate.<br/>         Connection to other WCC programs: Advanced training in motorcycle service, utilization of existing course in welding WAF 103.</p> <p>Expanding on service department operations skills developed under the certificate program, students in the advanced certificate program will hone their mechanical skills in engine and dynamometer technology as they relate to motorcycles and ATVs.</p> |  |  |
| <b>Need</b><br>Need for the program with evidence to support the stated need.  | <p>Continuing training in the Motorcycle Service Industry will be required. In conjunction with the Certificate in Motorcycle Service Technology, WCC students will be proficient in troubleshooting, diagnosing and repairing all the advanced components and systems found on the motorcycles and ATVs currently available. At this time, there are no known programs of this kind offered within the State of Michigan and out-of-state schools offering similar programs charge \$20,000 in yearly tuition costs.</p>  |  |  |
| <b>Program Outcomes/Assessment</b><br>State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program.<br><br>Include assessment methods that will be used to determine the effectiveness of the program.                           | <u>Outcomes</u>  |  | <u>Assessment method</u>   |
|  | 1. <b>Identify factors related to engine performance as calculated using a dynamometer to compare power transfer and determine areas for improvement.</b>  |  | 1. <b>practical labs and written exams</b>   |
|  | 2. <b>Demonstrate troubleshooting skills to diagnose vehicle problems and perform necessary modifications</b>  |  | 2. Survey of employers.  |

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| <b>Curriculum</b><br><br>List the courses in the program as they should appear in the catalog. List minimum credits required. Include any notes that should appear below the course list. | <b>CVMST Motorcycle Service Technician (Advanced Certificate)</b><br><br>MST 210 Performance Engine Technology 4<br><br>MST 220 Dynamometer Operations 4<br><br>WAF 103 Heli-Arc Welding 2<br><br>Minimum Credits required for certificate: 10  |               |  |  |                |               |         |       |       |                 |    |    |                     |    |    |                      |    |    |       |    |    |                |              |              |
|---|---|---------------|--|--|----------------|---------------|---------|-------|-------|-----------------|----|----|---------------------|----|----|----------------------|----|----|-------|----|----|----------------|--------------|--------------|
| <b>Budget</b><br><br>Specify program costs in the following areas, per academic year:   | <table border="1"> <thead> <tr> <th></th> <th>START-UP COSTS</th> <th>ONGOING COSTS</th> </tr> </thead> <tbody> <tr> <td>Faculty</td> <td>\$ 0.</td> <td>\$ 0.</td> </tr> <tr> <td>Training/Travel</td> <td>0.</td> <td>0.</td> </tr> <tr> <td>Materials/Resources</td> <td>0.</td> <td>0.</td> </tr> <tr> <td>Facilities/Equipment</td> <td>0.</td> <td>0.</td> </tr> <tr> <td>Other</td> <td>0.</td> <td>0.</td> </tr> <tr> <td><b>TOTALS:</b></td> <td><b>\$ 0.</b></td> <td><b>\$ 0.</b></td> </tr> </tbody> </table> |               |  |  | START-UP COSTS | ONGOING COSTS | Faculty | \$ 0. | \$ 0. | Training/Travel | 0. | 0. | Materials/Resources | 0. | 0. | Facilities/Equipment | 0. | 0. | Other | 0. | 0. | <b>TOTALS:</b> | <b>\$ 0.</b> | <b>\$ 0.</b> |
|   | START-UP COSTS  | ONGOING COSTS |  |  |                |               |         |       |       |                 |    |    |                     |    |    |                      |    |    |       |    |    |                |              |              |
| Faculty   | \$ 0.   | \$ 0.         |  |  |                |               |         |       |       |                 |    |    |                     |    |    |                      |    |    |       |    |    |                |              |              |
| Training/Travel   | 0.  | 0.            |  |  |                |               |         |       |       |                 |    |    |                     |    |    |                      |    |    |       |    |    |                |              |              |
| Materials/Resources   | 0.  | 0.            |  |  |                |               |         |       |       |                 |    |    |                     |    |    |                      |    |    |       |    |    |                |              |              |
| Facilities/Equipment  | 0.  | 0.            |  |  |                |               |         |       |       |                 |    |    |                     |    |    |                      |    |    |       |    |    |                |              |              |
| Other   | 0.  | 0.            |  |  |                |               |         |       |       |                 |    |    |                     |    |    |                      |    |    |       |    |    |                |              |              |
| <b>TOTALS:</b>  | <b>\$ 0.</b>  | <b>\$ 0.</b>  |  |  |                |               |         |       |       |                 |    |    |                     |    |    |                      |    |    |       |    |    |                |              |              |
| <b>Program Description for Catalog and Web site</b>   | The purpose of the motorcycle Service Technology Advanced Certificate program is to improve the student's skills as a Motorcycle Technician. Emphasis is placed on engine performance technology, dynamometer operations and welding.   |               |  |  |                |               |         |       |       |                 |    |    |                     |    |    |                      |    |    |       |    |    |                |              |              |
| <b>Program Information</b>  | Accreditation/Licensure - None<br><br>Advisors – Michael Shute / Bruce Greene<br><br>Advisory Committee – Bruce Greene, Michael Shute, members of the Motorcycle Industry, professional and educational agencies of the region TBA<br><br>Admission requirements – Completion of the Motorcycle Service Technology Certificate<br><br>Articulation agreements - None<br><br>Continuing eligibility requirements - None  |               |  |  |                |               |         |       |       |                 |    |    |                     |    |    |                      |    |    |       |    |    |                |              |              |

**Assessment plan:**

| Program outcomes to be assessed  | Assessment tool                        | When assessment will take place           | Courses/other populations | Number students to be assessed   |
|--|--|---|---------------------------|--|
| 1. Identify factors related to engine performance as calculated using a dynamometer to compare power transfer and determine areas for improvement. | practical labs and written final exams | Winter 2011 and every 3 years thereafter. | All                       | A random sample of 50% of the students earning an advanced certificate |
| 2. Demonstrate troubleshooting skills to diagnose vehicle problems and perform necessary modifications   | Survey of employers.                   | Winter 2011 and every 3 years thereafter  | All                       | A random sample of 50% of the students earning an advanced certificate |

**Scoring and analysis plan:**

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric.

Written final exams and practical labs scores will be collected for students selected as the assessment sample.

Practical lab rubrics will be gathered for the students selected as the assessment sample.

A survey will be developed in conjunction with institutional research that will be administered to the employers of a random sample of 50% of the students earning an advanced certificate.

2. Indicate the standard of success to be used for this assessment.

Final exam scores will be reviewed to verify that 75% of the students earned a score of 80% or higher on the final exam for the two MST courses.

75% of the students will have earned an average score of 70% or higher on the rubric.

Employers will rate 80% of the students at the level of good/proficient or above on each survey item.

3. Indicate who will score and analyze the data.

Faculty members and advisory committee members will review the exams, laboratory rubric and survey results and blind score the results to calculate the success rate.

4. Explain how and when the assessment results will be used for program improvement.

Faculty members and advisory committee members will review the feedback to identify any areas of weakness in the performance of the assessment sample. Adjustments will be made to instruction to improve instruction.

| REVIEWER  | PRINT NAME       | SIGNATURE               | DATE       |
|---|------------------|-------------------------|------------|
| Department Chair/Area Director  | Michael R. Shute | <i>Michael R. Shute</i> | 11/16/2006 |
| Dean  | Bruce Greene     | <i>Bruce Greene</i>     | 11/16/2006 |
| Vice President for Instruction<br><input type="checkbox"/> Approved for Development<br><input checked="" type="checkbox"/> Final Approval |                  | <i>Walter W. Palay</i>  | 11/22/07   |
| President   |                  | <i>Henry Whitworth</i>  | 1/23/07    |
| Board Approval  |                  |                         |            |

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Program Information Report

Automotive Technologies

Motorcycle Service Technology II (CVMST2)

Advanced Certificate

UNDER CONSTRUCTION

Program Effective Term: Fall 2007

The purpose of the Motorcycle Service Technology II Advanced Certificate program is to improve the student's skills as a motorcycle technician. Emphasis is placed on engine performance technology, dynamometer operations, and welding.

Program Admission Requirements:

Completion of the Motorcycle Service Technology I Certificate.

| Major/Area Requirements |                               | (10 credits) |
|-------------------------|-------------------------------|--------------|
| MST 210                 | Performance Engine Technology | 4            |
| MST 220                 | Dynamometer Operations        | 4            |
| WAF 103                 | Heli-ARC Welding              | 2            |

Minimum Credits Required for the Program: 10