Program Overview

The Power Sports Technician program will prepare the student to troubleshoot, service, and repair recreational equipment. Theories of construction and operation of two- and four-cycle engines, new developments in environmental concerns, and engine overhaul are studied, as well as transmissions and chassis service techniques.

Special Feature

WITC is an accredited Equipment & Engine Training Council (EETC) testing facility providing students with the opportunity to become industry certified.

Admission Requirements

Students in this program must:
• Complete application form and submit with fee (fee waiver may apply if previously submitted)
• Complete Accuplacer entrance assessment to determine placement (waiver may apply with acceptable alternative test scores and/or postsecondary degree completion)
• Review and sign the Functional Ability Statement of Understanding
• Complete admissions meeting with a WITC counselor (above requirements should be completed prior to meeting)

Program Outcomes

Employers will expect Power Sports Technician graduates to be able to:
• Repair brake systems
• Repair 2-stroke engine
• Repair 4-stroke engines
• Repair drive lines
• Repair electrical systems
• Repair suspensions
• Repair fuel systems
• Repair hydraulic systems
• Develop a customer work order

Employability essentials and indicators will also be addressed to develop personal awareness, career effectiveness, and professionalism. See page 5 of the college catalog for a list of employability essentials and indicators.

Career Outlook

Typical positions available after graduation include:
• Motorcycle, Marine, and Outdoor Power Products Technician
• Motorcycle Technician
• Outboard Motor Technician
• Small Engine Technician
• Chainsaw Technician
• Lawn and Garden Equipment Technician
• ATV Technician
• Industrial Equipment Technician
• Partsperson
• Small Engine Shop Owner

Curriculum

<table>
<thead>
<tr>
<th>Number</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>31461301</td>
<td>Small Engine and Chassis Repair 1</td>
<td>5</td>
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<tr>
<td>31461302</td>
<td>Small Engine and Chassis Repair 2</td>
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</tr>
<tr>
<td>31461310</td>
<td>Introduction to 12-Volt Electrical Theory</td>
<td>1</td>
</tr>
<tr>
<td>31461311</td>
<td>Introduction to Power Trains</td>
<td>1</td>
</tr>
<tr>
<td>31461312</td>
<td>Introduction to Mobile Hydraulics</td>
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<td>31461313</td>
<td>Introduction to Diesel Engines</td>
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<td>31461335</td>
<td>Small Engine and Chassis Theory</td>
<td>2</td>
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<td>31461339</td>
<td>Marine Service ▲</td>
<td>5</td>
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<td>31461342</td>
<td>Motorcycle Service ▲</td>
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<td>ATV Service ▲</td>
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PROGRAM REQUIREMENTS ▲ 34

▲ Requires a prerequisite and/or corequisite that must be completed with a grade point of 2.0 or better.

See pages 41-43 for course descriptions.
Course Descriptions

(See pages 41-43 for General Studies course descriptions)

31461301 Small Engine and Chassis Repair 1 - Credits: 5
You will diagnose, troubleshoot, tune up, and overhaul engines and service chassis on lawn and garden equipment and industrial equipment. Practical hands-on experience is gained in engine disassembly, measuring parts for wear, cylinder reconditioning, valve train servicing, governor adjusting, fuel and ignition system servicing, and reassembly techniques. You will service drive and chassis systems to ensure the operation of the complete unit. You will also order repair parts, prepare service report forms, and learn customer relations. COREQUISITES: 31461302 Small Engine and Chassis Repair 2 and 31461335 Small Engine and Chassis Theory.

31461302 Small Engine and Chassis Repair 2 - Credits: 4
You will diagnose, troubleshoot, tune-up, and overhaul engines and service chassis on chain saws and snowmobiles. Practical hands-on experience is gained in engine disassembly, measuring parts for wear, cylinder reconditioning, valve train servicing, governor adjusting, fuel and ignition system servicing, and reassembly techniques. You will service drive and chassis systems to ensure the operation of the complete unit. You will also order repair parts, prepare service report forms, and learn customer relations. COREQUISITES: 31461301 Small Engine and Chassis Theory and 31461335 Small Engine and Chassis Theory.

31461310 Introduction to 12-Volt Electrical Theory - Credits: 1
This course is designed for the learner to understand basic 12-volt electrical theory. Using hands-on activities, this course will help the learner to better understand basic 12-volt electrical systems.

31461311 Introduction to Power Trains - Credits: 1
This course will provide a general overview of clutches, sliding gear, and hydrostatic drives. Design, operation, adjustment, and maintenance will be discussed.

31461312 Introduction to Mobile Hydraulics - Credits: 1
This course will provide a practical understanding of mobile hydraulic components. Their design, application, operation and maintenance will be studied. A hydraulic training bench will be used in the classroom.

31461313 Introduction to Diesel Engines - Credits: 1
This course will provide the learner with a basic understanding of the diesel engine. The design and operating principles of the engine, cooling, fuel, and lubrication systems will be examined.

31461335 Small Engine and Chassis Theory - Credits: 2
This course provides the theory necessary to understand and perform the hands-on tasks of troubleshooting and repairing small gas engines, their drive mechanisms, and their chassis. Theory is presented on the principles of operation and service of 4-cycle, 2-cycle, and small diesel engines in the outdoor power equipment and snowmobile areas. Drive and chassis operation is explained to enable the student to service the complete unit. COREQUISITE: 31461302 Small Engine and Chassis Repair 2.

31461339 Marine Service - Credits: 5
This course will provide the theory necessary to understand and troubleshoot the components and systems unique to the outboard marine engine area. Theory will be given in the specialty areas of fuel systems, ignition systems, cooling systems, lubrication systems, and gear cases. You will learn to apply basic troubleshooting techniques and repair procedures of small engine service and repair to marine engines with emphasis on practical hands-on experience. PREREQUISITES: 31461302 Small Engine and Chassis Repair 2 and 31461335 Small Engine and Chassis Theory.

Graduate Employment Information
(WITC Graduate Survey Responses 2014-2015; for most recent data, go to witc.edu)

<table>
<thead>
<tr>
<th>Number of graduates</th>
<th>Number employed</th>
<th>% employed in WITC district</th>
<th>Range of yearly salary</th>
<th>Average yearly salary</th>
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</thead>
<tbody>
<tr>
<td>11</td>
<td>6</td>
<td>67%</td>
<td>$27,038-$31,198</td>
<td>$29,464</td>
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<td>9</td>
<td>Percent employed</td>
<td>86%</td>
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<td></td>
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<tr>
<td>7</td>
<td>Employed in related field</td>
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</tbody>
</table>

Gainful employment information is available at this link: http://www.witc.edu/pgmpages/mmopp/gainful-employment/Ged.html. This information is provided as a federal requirement in an effort to help students make informed decisions related to the costs and potential employment in a chosen field.