

# POWER SPORTS & EQUIPMENT TECHNOLOGY

## Maintenance

Pierce County Careers Connection

Dual Credit Articulation Agreement

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Upon completion of high school course(s) equivalent to the following competencies:

### Small Engine Periodic Maintenance

- Properly pressure-test a liquid-cooled system.
- Perform cooling system cleaning for air-cooled engine.
- Service a crankcase breather assembly.
- Check for damage to the fins or fan.
- Identify debris clogging air fins.
- Test and replace high-tension lead(s).
- Test solid-state transistor controlled discharge system.
- Test capacitive ignition system.
- Demonstrate timing procedure for points style.
- Check engine for top end compression.
- Inspect the fuel system for proper operation.
- Perform carburetor pressure test.
- Inspect the exhaust port for carbon obstruction.
- Check crankcase integrity with pressure/vacuum pump
- Operate the engine to check for proper starting and acceleration.
- Differentiate hunting/surging symptom between fuel system or governor system.
- Perform cylinder compression test.
- Disassemble, clean, and reassemble carburetors.
- Adjust carburetor float level, adjust carburetor metering levers, remove, replace, and repair fuel lines and hoses, remove and replace fuel tank, filters, caps, and lines, and adjust the engine idle speed.
- Follow checklist steps to provide all required periodic procedures bringing the vehicle/apparatus to appropriate operational status.

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A student earning a "C" grade or better may earn college credit at the following college:

| <u>College</u>          | <u>Course</u>               | <u>Credits</u> |
|-------------------------|-----------------------------|----------------|
| Bates Technical College | POW 102 (CIP Code: 47.0606) | 5              |