

# SMALL ENGINE REPAIR (SER)

(Ventress Correctional Facility)

This short certificate program is designed to teach students to repair small gasoline engines. Students receive instruction in the principles of four-stroke cycle and two-stroke cycle engines. Other areas of emphasis are troubleshooting and repair procedures on valves; power producing components; fuel systems; ignition systems; and exhaust, lubrication, and cooling systems.

After completing this program, students will be able to diagnose small engine problems and make repairs to chain saws, lawnmowers, and other similar equipment. Students completing all courses listed in the curriculum will be awarded a certificate. Admission is conditional and depends on the student's ability to perform the essential functions identified for this program. A high school diploma or GED® is not required; however, students are required to demonstrate college and career readiness. (See *Admission to Courses Not Creditable Toward an Associate Degree* in the *Admissions Policies and Procedures* section of this catalog.) Reasonable accommodations are considered.

## SHORT CERTIFICATE CURRICULUM

<i>Course</i>		<i>Credit Hours</i>
<b>Area V:</b>	<b>Career and Technical Courses</b>	
<b><i>Required Field of Concentration Courses</i></b>		
SER 111	Fundamentals of Small Engine Repair	3
SER 112	Four-Stroke Cycle Engine	3
SER 113	Four-Stroke Cycle Engine Lab	3
SER 115	Basic Small Engine Electrical Systems	3
SER 121	Two-Stroke Cycle Engine	3
SER 122	Engine Reconditioning	2
SER 123	Engine Reconditioning Lab	3
SER 124	Special Projects in Lawn, Garden, and Industrial Engines	3
SER 132	Lawn and Garden Equipment Fundamentals	3
SER 142	Chain Saws and String Trimmers	3
<b>Total Credits for Short Certificate</b>		<b>29</b>

### *Small Engine Repair Short Certificate Suggested Course Sequence*

<b><i>FIRST SEMESTER</i></b>	<b><i>SECOND SEMESTER</i></b>	<b><i>THIRD SEMESTER</i></b>
<i>SER 111</i>	<i>SER 121</i>	<i>SER 132</i>
<i>SER 112</i>	<i>SER 122</i>	<i>SER 142</i>
<i>SER 113</i>	<i>SER 123</i>	
<i>SER 115</i>		
<i>SER 124</i>		