AOS Degree – Code #1908
Clinton Gray, Department Chair
Email address: GrayCJ@alfredstate.edu

This program will provide you with the hands-on skills and expert training required by heavy equipment operators for the light construction and heavy highway industries. Instruction is provided in heavy equipment operations theory, as well as grades, soils, blueprint reading, safety, and supervision.

You will spend approximately 25 percent of your lab time operating real, industry-standard equipment; the balance of the lab time is spent on equipment inspection, maintenance, grades, lot layout, operation support, and estimating.

Advantages
Programs leading to an AOS degree are hands-on and do not include liberal arts and sciences courses. Offered at the School of Applied Technology campus in Wellsville, heavy equipment operations is geared toward a person who would like to enter the heavy equipment operation industry following graduation.

Direct Entry Into Baccalaureate Degree Program
Alfred State heavy equipment operations graduates may enter directly into the construction supervision BTech or technology management BBA degree program. Graduates who have credit for freshman composition, statistics, literature, history, and speech may complete the baccalaureate program in two additional years; others may complete the program in two-and-one-half years.

Occupational Opportunities
• Town, village, or county department of public works
• NYS Department of Transportation
• Highway and heavy construction companies
• Mining companies
• Logging companies
• Energy industry
• Self-employment
• Equipment operator
• Construction foreman
• Construction superintendent

Employment Statistics
Employment and continuing education rate of 100 percent – 97 percent are employed; 3 percent continued their education.

Related Programs
Heavy Equipment, Truck & Diesel Technician

Required Tools/Equipment
A list of required tools, equipment, PPE, etc. for the program mentioned above can be found at http://www.alfredstate.edu/tool-lists.

A Tier 1 laptop computer is required for students entering this degree program. Laptop specifications are available at www.alfredstate.edu/required-laptops.

Entrance Requirements/Recommendations
Required: Letters of recommendation, essay, and resume indicating related work experience and/or knowledge of field

Recommended: Algebra and Geometry

Students will be accepted for the heavy equipment operations program based on the strength of their application. Criteria for consideration will include high school average, regents exam scores (if a New York State student), grades in related course work, results of standardized tests (if available), and additional information provided through letters of recommendation, a personal essay indicating career goals, and a resume.

Technical Standards
It is crucial that all student applicants in this degree program must be able to meet the following requirements, with or without reasonable accommodation. Students who are enrolled in this degree program should have the physical capabilities to be able to engage in all training, field, and laboratory environments in a safe and ethical manner. Students must be able to:

• Lift and carry up to or 50 pounds of building materials/equipment without accommodations.
• Perform and function in a safe manner in all laboratory and classroom environments and off campus job site locations.
• Effectively communicate with classmates and instructional staff using appropriate visual and/or auditory communication from a distance of 20 feet.
• Physically setup, move, or climb ladders, scaffolding, etc., unaided, using the designated safety method.
• Identify and react to safety alarms which include, but not limited to, fire alarms, back up alarms and those meant for emergencies.

Office of Accessibility Services
Students who believe they need a reasonable accommodation to properly participate in this program may contact Melanie Ryan in the Office of Accessibility Services. This office may be contacted by email at oas@alfredstate.edu or by phone at 607-587-4506. Please keep in mind that some accommodations may take time to implement, so students seeking accommodations are encouraged to contact OAS as early as possible.

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HEAVY EQUIPMENT OPERATIONS - AOS DEGREE

TYPICAL FOUR-SEMESTER PROGRAM

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<th>Semester</th>
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<th>Course Title</th>
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<td>Introduction to Earth Moving</td>
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<td>Preventive Maintenance Checks</td>
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GRADUATION REQUIREMENTS

A student must successfully complete all courses in the prescribed four-semester program and earn a minimum cumulative grade point average of 2.0 in major courses.