



### AOS DEGREE – CODE #0452

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One of our most popular programs, this specialization includes 1,800 hours of practical experience and classroom training designed to prepare you to enter the dynamic field of heavy equipment maintenance and repair. You will receive a strong foundation on all types of vehicles during your first year, followed by a year of concentration on trucks, bulldozers, earthmovers, farm tractors, and other diesel-powered equipment during your senior year.

### ADVANTAGES

- Our heavy equipment, truck and diesel technician program is the only program in New York and New England that is approved by the Association of Diesel Specialists (ADS). The heavy equipment, truck and diesel technician program is one of only nine national ADS TechSmart training programs.
- Students successfully completing the heavy equipment, truck and diesel technician program may return for a third year (senior year) in automotive service technician or motorsports technology and earn a second associate degree. They may be admitted to autobody repair with the department chair's approval.

### DIRECT ENTRY INTO BACCALAUREATE DEGREE PROGRAM

Alfred State heavy equipment, truck and diesel technician graduates may enter directly into the technology management BBA degree program. Graduates who have credit for freshman composition, statistics, literature, history, and speech may complete the BBA program in two additional years; others may complete the BBA program in two-and-one-half years.

### OCCUPATIONAL OPPORTUNITIES

- Agricultural equipment mechanic
- Service manager
- Diesel engine specialist
- Diesel fuel system specialist
- Shop foreman
- Heavy equipment mechanic
- Truck fleet mechanic
- Industrial equipment mechanic
- Marine engine service technician

### EMPLOYMENT STATISTICS

Employment and continuing education rate of 97 percent – 97 percent are employed.

### RELATED PROGRAMS

[Autobody Repair](#)  
[Automotive Service Technician](#)  
[Mechanical Engineering Technology](#)  
[Welding Technology](#)

### REQUIRED TOOLS/EQUIPMENT

A list of required tools, equipment, PPE, etc. for all of the programs 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](http://www.alfredstate.edu/required-laptops).

### ENTRANCE REQUIREMENTS/RECOMMENDATIONS

Recommended: Algebra

### 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](mailto: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.

### TECHNICAL STANDARDS

Applicants for all programs in the Automotive Trades Department must meet the following physical requirements:

- Must be able to lift 50 pounds to eye level.
- Must be able to effectively communicate with a person 6 to 10 feet away.
- Must be able to visually decipher small images on a monitor or digital display.
- Must be able to distinguish sounds associated with mechanical failures.
- Must be able to comprehend written information found in service repair manuals.
- Must have a valid motor vehicle driver's license.

### CERTIFICATION OR LICENSURE

Students may take Automotive Service Excellence (ASE) certification exams in eight areas and the ADS TechCert test. Students are eligible for New York State inspection certification upon successful completion of their freshman year. In their senior year, students may take the test for certification in Basic Engine Theory through the Association of Diesel Specialists.

### HEAVY EQUIPMENT, TRUCK AND DIESEL TECHNICIAN - AOS DEGREE TYPICAL FOUR-SEMESTER PROGRAM

First			
AUTO	1224	Welding	4
AUTO	1245	Trk Bsc Elctrns & Cmpnt Ovrhal	5
AUTO	1219	Truck Brake, Steer & Sus Sys	9
			18
Second			
AUTO	1239	Trk Insp, Maint, AC, Cng/Htng	9
AUTO	2169	Truck Electrical, Fuel & Emiss	9
			18
Third			
AUTO	3609	Heavy Duty Drive Train	9
AUTO	3649	Diesel Engine Service	9
			18
Fourth			
AUTO	4669	Diesel Fuel System Service	9
AUTO	4623	Heavy Duty HVAC	3
AUTO	4613	Heavy Duty Hydraulic Systems	3
AUTO	4603	Heavy Duty Electrical Systems	3
			18

### CONTINUING STUDENTS

Students successfully completing the heavy equipment, truck & diesel technician program receive first priority for space if they wish a third year (senior year) in automotive service technician. They may be admitted to autobody repair with the department chair's approval.

**GRADUATION REQUIREMENTS**

A student must successfully complete all courses in the prescribed four-semester program and earn a minimum cumulative index of 2.0, which is equivalent to a "C" average.