

Power & Equipment

Power and equipment technology involves the service, testing, management, and sales associated with the agricultural, industrial, construction, and outdoor power and equipment industries.

Pursuing Power and Equipment Technology at Ohio State ATI

Ohio State ATI recommends that students entering the field of power and equipment technology pursue a college preparatory or tech prep curriculum and have an aptitude toward mathematics, science, and mechanical skills. A career center education background or prior experience working with power equipment can be helpful.

Students seeking an Associate of Applied Science in Power and Equipment Technology enter directly into the program upon completion of their admission requirements. All applicants are strongly advised to arrange a pre-admission conference to acquaint themselves with the various aspects of this major.

Areas of study include engines; agricultural, industrial, construction, outdoor, and horticultural equipment; electronics; hydraulics; power transmissions; computer applications; problem solving; welding and manufacturing processes; and business management and marketing.

This program requires that approximately 40 percent of the credits be earned in the general studies of science, math, communications, and social science. Some of the courses offered in general studies are written expression, oral communication, technical math, business communication, technical physics, and economics.

Technical instruction includes course work in engines, welding, power transmission, electronics, mobile hydraulics, engine diagnosis/repair, equipment dealership management, diesel engine systems, and mobile heating/air conditioning.

To obtain an Associate of Applied Science in Power and Equipment Technology from Ohio State ATI, students must complete a minimum of 104 quarter credit hours with a cumulative point-hour ratio of 2.0 or above. They must satisfactorily complete a prescribed curriculum which includes at least 58 quarter credit hours in technical studies and 46 quarter credit hours in basic and general studies. A minimum of 45 quarter credit hours must be earned through regular course work at the institute, exclusive of an internship.

Because of their diverse and related interests, many students choose to pursue a dual major during their academic studies at Ohio State ATI. This can serve to broaden professional opportunities and educational experience. Students who decide to follow this curriculum track are urged to work closely with their academic advisors.

Internships

Students in the power and equipment technology program complete an internship of 10 weeks of full-time employment in their field of study. Ohio State ATI helps students find appropriate internship positions in both Ohio and other states. Students are paid for their employment, graded on their job performance, and awarded academic credit.

Career Prospects in Power and Equipment Technology

Graduates enter the work force in careers involving the purchase, utilization, development, maintenance, repair, and sales of agricultural, outdoor, horticultural, construction, and industrial equipment. Students become service technicians, service managers, parts managers, maintenance supervisors, sales representatives, product development and test technicians, and equipment specialists.

Beginning salaries for power and equipment technicians range from \$21,000 to more than \$30,000 annually, depending on the specific skills and abilities of the graduate and the type and location of the business.

Opportunities for Outstanding Students

Each spring, the Outstanding Student Banquet recognizes the top student in each major or technology. Ohio State ATI also has a chapter of Phi Theta Kappa, the international honor society for students at two-year institutions. Selection for this prestigious society is based upon academic achievement and leadership qualities. Students with cumulative grade point averages of between 3.7 and 4.0 are eligible to graduate with Latin honors (summa cum laude, magna cum laude, or cum laude).

About Ohio State ATI

Ohio State ATI, located in Wooster, Ohio, is ranked number one in the nation in the awarding of associate degrees in agriculture and related sciences and is the associate-degree granting unit of The Ohio State University College of Food, Agricultural, and Environmental Sciences. Twenty-five technical programs leading to the Associate of Applied Science or Associate of Science degree are offered

For more information, check these web sites:

Power & Equipment Technology:
www.ati.osu.edu/programs
Ohio State ATI: www.ati.osu.edu

Ohio State: www.osu.edu
Admissions: www.ATIadmissions.osu.edu
Visit ATI: www.ati.osu.edu/visit_campus.html

Curriculum Sample

First Year:

Autumn Quarter

Introduction to Power and Equipment	3
Shop Skills Practicum	2
Technical Mathematics I	5
First-Year Written Composition	3
Personal and Career Orientation	1
Introduction to Microcomputer Applications	1
Word Processing Applications	1

Winter Quarter

Engine Diagnosis & Repair	4
Technical Mathematics II	5
Technical Physics I	4
Essentials of Oral Communication	3

Spring Quarter

Basic Electricity and Controls	3
Mobile Heating and Air Conditioning	2
Welding and Metal Fabrication	4
Basic Hydraulic Systems	3
Technical Physics II	4

Summer Quarter

Occupational Internship	6
Total Hours	53

Second Year:

Autumn Quarter

Vehicle Electrical and Electronic Systems	3
Business Communication or Technical Reporting	3
Introduction to Chemistry I	4
Social science elective	3
Technical Physics II	4

Winter Quarter

Diesel Engine Systems	4
Methods of Power Transmission	3
Equipment Dealership Management	3
Spreadsheet Applications	1
Social science elective	3
Business elective	3

Spring Quarter

Performance of Mobile Power Units	2
Fluid Conveyance, Fluids & Filters	3
Problem Solving Using Systems Approaches	3
General Economics	5
Humanities elective	3
Total Hours	50

at the Wooster campus. Two Certificate of Competency programs, in hydraulic service and repair and commercial turf equipment, are also offered. Within four months of graduation, 99% of Ohio State ATI graduates are employed or pursuing bachelor's degrees.

Ohio State ATI's 50-acre central campus features classroom and laboratory buildings, horticultural facilities, the student activities center, residence hall, and Applewood Village student apartments. A 1700-acre farm laboratory is located five miles east of the central campus.

Halterman Hall houses classrooms, the Library Learning Resource Center, computer labs, administrative and faculty offices, as well as specialized laboratory facilities for chemistry, physics, entomology, biology, botany, soils, floral design, and landscape classes.

Adjacent to Halterman Hall is Skou Hall, home to classrooms, academic offices, and laboratories for animal, dairy, and equine sciences and turfgrass management. Skou Hall also houses engine, electronics, construction, and Fluid Power classes, and contains the Ohio State ATI Bookstore, Café Carmen, a student lounge, and the office of Student Success Services, which provides career and personal counseling, tutoring, study groups, disability services, and other support services to students.

Ohio State ATI's greenhouse complex, tropical plant conservatory, and numerous outdoor gardens assure that the campus is blooming and beautiful year-round.

Ohio State ATI's student activities center features a weight room, game room, gymnasium, and racquetball courts and coordinates activities and events sponsored by student clubs. An active intramural sports program makes use of ATI's multi-purpose athletic field.

The Ohio State ATI residence hall features fully-furnished efficiency apartments that include a kitchenette and full bath. The Applewood Village student apartments are fully-furnished one-, two-, or three-bedroom townhouses. Both the residence hall and apartment village are air conditioned and include utilities, cable TV, and Internet access. Parking is free on the ATI campus.

Revised July 2004

Contact information:

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