

HONDA PROFESSIONAL AUTO CAREER TRAINING (PACT), AAS

At Dunwoody College of Technology, the Honda PACT program prepares graduates to be technicians servicing Honda and Acura vehicles at authorized dealerships. Students train specifically on current model Honda and Acura vehicles, information systems, scan tools, and training materials. Students also complete an internship under the guidance of a master technician at a sponsoring American Honda or Acura dealership. These paid internships give students the opportunity to integrate their learning and further develop their skills in service technology.

Arts & Sciences curriculum supports the technical skills students learn as well as enhances their oral and written communication skills and critical thinking ability.

All Honda PACT instructors are certified by Honda in the areas that they teach, in addition to being certified as Master Technicians by the National Institute for Automotive Service Excellence (ASE).

Dunwoody's Honda PACT program has received several awards from American Honda for being one of the best Honda PACT automotive schools in the nation.

Credits earned in the Honda Professional Auto Career Training AAS degree directly transfer into Dunwoody's Business Management & Leadership Bachelor of Science (<https://catalog.dunwoody.edu/catalog-student-handbook/academic-programs/business/business-management-leadership-amgt-bs/>) program.

Credential Earned: AAS

Length of Program: 2 years (4 semesters)

Classes Offered: Day

Available Starts: Fall Semester

Program Outcomes

- Identify and describe automobile components.
- Explain automotive systems' operations.
- Disassemble and assemble components.
- Diagnose vehicle conditions.
- Evaluate component condition and recommend action.
- Repair conditions and verify operation.
- Demonstrate effective customer satisfaction techniques.
- Demonstrate effective use of service information.

Degree Requirements

Code	Title	Credits
General Requirements		
Communications		3
Humanities		3
Natural Science/Mathematics		3
Social Sciences		3
General Electives		3
Technical Requirements		
AUTO1111	Fundamentals of Automotive Service I	6

AUTO1121	Fundamentals of Automotive Service II	6
AUTO1211	HVAC/Advanced Electrical	6
AUTO1221	Chassis Systems	6
AUTO1254	Exploration of Honda Automotive Systems	1
PACT2112	Engine Performance/Engine Repair	12
PACT2213	Transmission/Driveline	6
PACT2561	PACT Internship	6
PACT2260	PACT Skill Modules	2
Total Credits		66

Courses

Descriptions

AUTO1111 | Fundamentals of Automotive Service I | Lecture/Laboratory (6 Credits)

Introduction to automotive service, maintenance and repair, Part 1: Use of tools and measuring instruments. Identify fasteners and fittings. Removed damaged fasteners. Research service procedures using automotive information systems. Examine theory of design, principles of operation, and repair procedures of automotive chassis steering, suspension, and brake systems. Perform maintenance and service procedures in the following areas: tire/wheel service, four-wheel alignments, drivetrain inspection and fluid maintenance.

AUTO1121 | Fundamentals of Automotive Service II | Lecture/Laboratory (6 Credits)

Introduction to automotive service, maintenance and repair, Part 2: Research service procedures using automotive information systems. Disassemble, assemble component engines. Describe engine parts, systems, and operation. Perform vehicle oil changes and vehicle inspections. Identify HVAC system components. Perform OBD II code scan. Examine electrical systems. Introduction to Ohm's Law, theory and principles, circuits, magnetism, electromagnetism, induction, and basic electronics including semiconductors. Test batteries, test and replace starters. Practice use of digital multimeters and wiring schematics to trace, test, and diagnose circuits.

AUTO1211 | HVAC/Advanced Electrical | Lecture/Laboratory (6 Credits)

Apply Ohm's Law theory and principles. Explore electrical circuit principles, batteries, cranking motors, charging systems, in addition to accessory operation, lighting system design, and instrumentation. Use digital multimeters and wiring schematics to trace, test, and diagnose circuits. Inspect, test starters and alternators. On vehicle diagnosis of body electrical systems, including diagnosis of battery, starting, and charging systems; heating/air conditioning component operation and physics. Control system diagnosis, service, repair procedures, and pressure diagnosis. On vehicle procedures for recovery/recycling equipment.

Prerequisite(s): AUTO1111 And AUTO1121

AUTO1221 | Chassis Systems | Lecture/Laboratory (6 Credits)

Examine theory of design and principles of operation, diagnosis, and repair procedures of automotive brake, steering and suspension systems. Practice performing service procedures, four-wheel alignments.

Prerequisite(s): AUTO1111 And AUTO1121

AUTO1254 | Exploration of Honda Automotive Systems | Lecture (1 Credit)

Explore Honda/Acura mechanical and electrical systems through discussion and online self-studies, using Honda/Acura PACT specific resources.

Prerequisite(s): AUTO1111 And AUTO1121

PACT2213 | Transmission/Driveline | Lecture/Laboratory (6 Credits)

Theory and operation of gears, controls, components relating to transmissions, transfer case, and differentials. Operation, diagnosis, disassembly, reassembly, power flow of driveline components as well as testing of hydraulic and electronic controls using service information.

Prerequisite(s): AUTO1111, AUTO1121, AUTO1211, And AUTO1221

PACT2561 | PACT Internship | Internship (6 Credits)

Cooperative, paid on-the-job training at a sponsoring Honda or Acura repair facility. Preparation providing real life job skills and work habits in a variety of automotive areas. Document your experience and hours in a weekly internship report. Work under the supervision of service management. Student must secure their own employment. The PACT Coordinator will oversee the internship. Need department director approval and must meet acceptance criteria. (Application must be submitted at least 8 weeks prior to start of the Internship) Must follow approved guidelines listed in the internship packet. PACT students must take this course in lieu of AUTO2252 Production.

Prerequisite(s): AUTO1111, AUTO1121, AUTO1211, And AUTO1221

PACT2260 | PACT Skill Modules | Lecture/Laboratory (2 Credits)

Complete remaining Honda PACT SKIL modules in a simulated training center environment. Practice the skills the student has learned in subsequent courses to complete Honda/Acura training lab assessments. Student led training with instructor feedback and check points while working through Honda/Acura corporate training. Emphasis on Electrical, Engine and Fuel and emissions. Some pre-requisite Self-Studies will be required before attempting certain tasks.

PACT2112 | Engine Performance/Engine Repair | Lecture/Laboratory (12 Credits)

Analyze theory of operation, design, diagnosis, and repair procedures of engines. Computerized engine control systems electrical and electronic devices. Examine emerging engine performance and vehicle propulsion technology. Use standard and computerized test equipment on OBDII equipped vehicles to make a complete performance analysis and/or diagnose specific problems to determine work needed on vehicles. Make repairs to restore vehicle performance, emissions, and fuel economy to as near as possible to original factory and Environmental Protection Agency (EPA) standards.