



## 2009-2010 Career Planning Guide Honda Professional Automotive Career Training (PACT)

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### Shoreline Community College

16101 Greenwood Avenue North

Shoreline, Washington 98133

Length of Program: 170-175 Credits, 8 quarters

Completion Award: A.A.A.S. Degree

#### Program Advisors:

Bob Biesiedzinski 206 546-6970 Room 2161

bbiesied@shoreline.edu

<http://www.shoreline.edu/auto>

### Approximate Quarterly Costs

Check quarterly class schedule for Tuition Table

Parking Fee Per Quarter

\$15

Uniform Fee

\$50

Tools and Equipment (estimate, all quarters)

\$4000

Additional Instructional Fees

\$25-\$85

Book costs vary widely. Most full-time students will

spend an average of \$200 per quarter for books.

**Enrollment:** Fall Quarter, Spring Quarter

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### PROGRAM DESCRIPTION

Shoreline Community College offers an Associate degree in Applied Arts and Science for students who are interested in entering the automotive service industry. American Honda's Professional Automotive Career Training (PACT) Program provides students with the fundamental skills to succeed in the workplace along with hands-on experience. Students alternate quarters between classroom instruction and paid dealership training. As students progress through the curriculum, they learn about the major automobile components and systems, including brakes, suspension, emissions, transmissions, electrical systems, heating and air conditioning, power trains and engine management systems. Students develop skills in automotive diagnostics, tune-ups and repairs. Students will also develop an understanding of automotive service business principles as they apply to the service technician. In their internship placements, students work under the guidance of a master technician at a sponsoring American Honda dealership. These paid internships give students the opportunity to integrate their learning and further develop their skills in service technology.

### PROGRAM OUTCOMES

Students who successfully complete this program should be able to:

1. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection and warranty repair procedures.
2. Identify, inspect, disassemble and assemble components of automotive power plants.
3. Apply knowledge of the function, construction, operation troubleshooting and servicing of disc, drum and ABS brake systems, steering, suspension and wheel alignment.
4. Use electronic engine analyzers and scanners to test and tune ignition, fuel injection and emission systems.
5. Apply understanding of electrical principles, semi-conductors, microprocessors and wiring diagrams to diagnose and repair malfunctions of automotive electrical systems.
6. Apply knowledge of the function, construction, operation, troubleshooting and service of front- and rear- wheel drive, manual and automatic transmissions and transaxles.
7. Test, service and repair heating and air-conditioning systems.

### CAREER OPPORTUNITIES

The placement rate for this program is 100%. Upon completion, graduates may be hired by their sponsoring dealership. The demand for dealer-trained technicians should remain strong over the next decade.

### POTENTIAL POSITIONS

American Honda Service Technician. With additional experience and education, many technicians can become a Parts or Service Manager: some may seek positions in sales, management or open their own related business. Entry-level salaries range from \$20,000 to \$24,000 depending on location and the individual's production abilities. For employment outlook, see the U.S. Dept. of Labor Occupational Outlook Handbook at <http://www.bls.gov/OCO/>.

# AUTOMOTIVE SERVICE TECHNOLOGY: HONDA PACT

Shoreline Community College: A.A.A.S. Degree

## PROGRAM PREREQUISITES

Minimum COMPASS Test Scores for Pre-Algebra (35-54), Writing (79-100), Reading (85-100) or placement into ENGL& 101

Automotive Skills Tests

Valid Driver's License

Proof of Insurability

Many dealers require drug testing

Instructor Interview

**Courses marked with an \* are the General Education/Related Instruction requirements for this program.**

## PROGRAM REQUIREMENTS

### FRESHMAN YEAR

| <u>Fall Quarter</u> |                         | <u>Cr.</u> | <u>Gr.</u> |
|---------------------|-------------------------|------------|------------|
| AUTOT 160           | Fund of Auto ServTraing | 9          | ___        |
| AUTOT 163           | Brakes & Suspension     | 9          | ___        |
| BUSTC 215*          | Prof Communications     |            |            |
|                     | <u>or</u>               |            |            |
| ENGL& 101*          | English Composition I   | 5          | ___        |

| <u>Winter Quarter</u> |                      | <u>Cr.</u> | <u>Gr.</u> |
|-----------------------|----------------------|------------|------------|
| AUTOT 291             | Coop Dealer Exper I  | 20         | ___        |
| PE 284*               | First Aid and Safety | 3          | ___        |

| <u>Spring Quarter</u> |                      | <u>Cr.</u> | <u>Gr.</u> |
|-----------------------|----------------------|------------|------------|
| AUTOT 166             | Electrical Systems   | 9          | ___        |
| AUTOT 168             | Heating and Air Con  | 9          | ___        |
| BUS 102*              | Business Mathematics |            |            |
|                       | <u>or</u>            |            |            |
| MATH 099*             | Intermediate Algebra | 5          | ___        |

| <u>Summer Quarter</u> |                      | <u>Cr.</u> | <u>Gr.</u> |
|-----------------------|----------------------|------------|------------|
| AUTOT 292             | Coop Dealer Exper II | 20         |            |

### SOPHOMORE YEAR

| <u>Fall Quarter</u> |                          | <u>Course</u>                         | <u>Cr.</u> | <u>Gr.</u> |
|---------------------|--------------------------|---------------------------------------|------------|------------|
| AUTOT 165           | Engine Mgmt/Emission Sys | 9                                     | ___        |            |
| AUTOT 161           | Engine Repair            | 9                                     | ___        |            |
| ___                 | ___*                     | Human Relations:<br>See Approved List | 2-5        | ___        |

| <u>Winter Quarter</u> |                       | <u>Cr.</u> | <u>Gr.</u> |
|-----------------------|-----------------------|------------|------------|
| AUTOT 293             | Coop Dealer Exper III | 20         | ___        |

| <u>Spring Quarter</u> |                          | <u>Cr.</u>                                   | <u>Gr.</u> |     |
|-----------------------|--------------------------|--|------------|-----|
| AUTOT 167             | Auto Trans/Transaxles    | 9  | ___        |     |
| AUTOT 164             | Manu Gear Trains/Transax | 9  | ___        |     |
| ___                   | ___*                     | Multicultural Education<br>See Approved List | 3-5        | ___ |

| <u>Summer Quarter</u> |                      | <u>Cr.</u> | <u>Gr.</u> |
|-----------------------|----------------------|------------|------------|
| AUTOT 294             | Coop Dealer Exper IV | 20         | ___        |

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**Total Credits Required 170-175**

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COMMENTS: \_\_\_\_\_  
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Every effort has been made to ensure the accuracy of the information in this publication. However, the information is subject to change without notice, and final career decisions are the responsibility of the reader.

**7122**  
**1-22-10**

|                              |            |
|------------------------------|------------|
| STUDENT NAME _____           |            |
| STUDENT I.D. _____           |            |
| <b>APPROVAL TO GRADUATE</b>  |            |
| ADVISOR APPROVAL _____       | DATE _____ |
| DIVISION DEAN APPROVAL _____ | DATE _____ |
| CREDENTIALS APPROVAL _____   | DATE _____ |