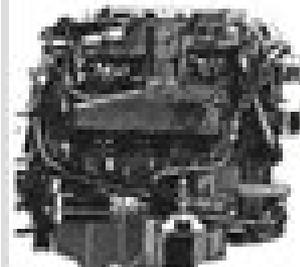


## Acronyms

The following is a list of common acronyms used by UPS.

|        |   |        |                                  |
|--------|---|--------|----------------------------------|
| BARO   | Barometric Pressure                                 | BIJ    | Injector / Injection             |
| B+     | Battery positive                                    | BO     | Input / Output                   |
| CAN    | Controller Area Network                             | RPA    | Rotational                       |
| CAIRB  | California Air Resources Board                      | KS     | Knock Sensor                     |
| CP     | Control/Act Position Sensor                         | KX     | Kilohertz                        |
| EXT    | Exhaust   | MAF    | Mass Airflow                     |
| CP     | Control/Act Position Sensor                         | MAP    | Manifold Air Pressure Sensor     |
| COOL   | Coolant   | MAT    | Manifold Air Temperature         |
| CYL    | Cylinder  | MFI    | Multipoint Injection / Injected  |
| DEG    | Degree  | MISC   | Miscellaneous                    |
| DI     | Distributor Igniter                                 | NC     | Normally Closed                  |
| DIST   | Distributor   | NO     | Normally Open                    |
| DLC    | Data Link Connector                                 | NTC    | Negative Thermal Coefficient     |
| DTC    | Diagnostic Trouble Code                             | OBD    | On-Board Diagnostic System       |
| DVOM   | Digital Volt Ohmmeter                               | OPS    | Oil Pressure Sensor              |
| ECM    | Electronic Control Module                           | PI     | Pul Per Fuel Injection           |
| ECT    | Engine Coolant Temperature Sensor                   | PRAM   | Programmable Read-Only Memory    |
| EEPROM | Electrically Erasable Programmable Read-Only Memory | PSI    | Pounds Per Square Inch           |
| EEC    | Electronic Sea Engine Control                       | PWM    | Pulse Width Modulated            |
| EL     | Electronic Ignition                                 | RAM    | Random Access Memory             |
| EM     | Electromagnetic Interference                        | REF IN | Reference In (RPM Input)         |
| ENG    | Engine  | REF LO | Reference Low (Return)           |
| EPA    | Environmental Protection Agency (Federal)           | RFI    | Radio Frequency Interference     |
| E-STOP | Emergency Stop                                      | ROM    | Read-Only Memory                 |
| GND    | Ground  | RPM    | Revolutions Per Minute           |
| GPH    | Gallons Per Hour                                    | SEA    | Sea Engine                       |
| HC     | Idle Air Control Throttle Motor                     | TACH   | Tachometer                       |
| IMF    | Integrated Air Fuel Module                          | TBI    | Throttle Body Fuel Injection     |
| IMT    | Intake Air Temperature Sensor                       | TCP    | Throttle Control Position Sensor |
| I      | Igniter / Ignition                                  | TMAP   | Combination MAP and MAP Sensor   |
| IGN    | Ignition  | TPS    | Throttle Position Sensor         |
| INH    | Inches of Mercury                                   | V      | Volts                            |
|        |   | VAC    | Volts AC                         |
|        |   | WOT    | Wide Open Throttle               |

## Course Content



- Introduction / Overview
- Safety Brief
- EFI Product Highlights
- MEFI Systems
- Inputs and Outputs
- Ignition Systems
- Fuel Systems
- Power Distribution
- Special Service Tools
- Service Information

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In Years past, Volvo Penta engines were equipped with 2 types of EFI systems, Throttle Body Injection (TBI) and Multipoint Injection (MPI or MFI). Both systems use the same types of sensors and a similar ECM (Electronic Control Module). This course is designed to cover Speed Density Fuel Injection used on all Volvo Penta fuel injected engines through the O2 model year.

Minimum performance requirements for successful completion of this course are:

1. Class exit and final final average score of 80% or higher
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## **Table of Contents Volvo Penta Service Training Manual**

1. Understanding the eBook Volvo Penta Service Training Manual
  - The Rise of Digital Reading Volvo Penta Service Training Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Volvo Penta Service Training Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Volvo Penta Service Training Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Volvo Penta Service Training Manual

- Personalized Recommendations
- Volvo Penta Service Training Manual User Reviews and Ratings
- Volvo Penta Service Training Manual and Bestseller Lists
- 5. Accessing Volvo Penta Service Training Manual Free and Paid eBooks
  - Volvo Penta Service Training Manual Public Domain eBooks
  - Volvo Penta Service Training Manual eBook Subscription Services
  - Volvo Penta Service Training Manual Budget-Friendly Options
- 6. Navigating Volvo Penta Service Training Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Volvo Penta Service Training Manual Compatibility with Devices
  - Volvo Penta Service Training Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Volvo Penta Service Training Manual
  - Highlighting and Note-Taking Volvo Penta Service Training Manual
  - Interactive Elements Volvo Penta Service Training Manual
- 8. Staying Engaged with Volvo Penta Service Training Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Volvo Penta Service Training Manual
- 9. Balancing eBooks and Physical Books Volvo Penta Service Training Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Volvo Penta Service Training Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Volvo Penta Service Training Manual
  - Setting Reading Goals Volvo Penta Service Training Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Volvo Penta Service Training Manual

- 
- Fact-Checking eBook Content of Volvo Penta Service Training Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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