

Prospective Technician Q & A

1. What does an E.G.R valve do? Why is it necessary on today's vehicles?

2. Explain the reason for the A.I.R system on modern vehicles, describe what it does, and what components make up that system.

3. What is an OBD readiness monitor?

4. What does the EVAP system do and how can you test for a problem with that system?

5. Which of the following can NOT cause a cranks/no start condition on a fuel injected engine? *There may be more than one correct answer. Circle all correct answers.*

- | | | | | |
|---------------|-------------|------------|---------------|------------|
| Spark Plugs | Timing Belt | MAF Sensor | Ignition Coil | CKP Sensor |
| Starter Motor | EGR Valve | Fuel Pump | Oxygen Sensor | |

6. What is a voltage drop? Explain how to test for it.

7. Read the attached wiring schematic and write down 3 possible causes if the _____ is not operating.

8. A car comes into the shop and has a p0301 code. *Circle all the possible causes.*

- | | | | | |
|---------------|-------------|------------|---------------|------------|
| Spark Plug | Timing Belt | MAF Sensor | Ignition Coil | CMP Sensor |
| Starter Motor | EGR Valve | Fuel Pump | Oxygen Sensor | |

9. What is the most likely cause of a p0440 code?

10. A car is towed in for a no start. Technician A checks it out and says it cranks ok but will not start. What should be the first 3 things checked to narrow down the possible causes of the no start condition?

11. What size is your tool box? Select all tools that are included in your personal tool box. *Circle all that apply.* _____

Adjustable Wrenches	Extendable Magnet	Vice Grip	SAE Socket Set	Adjustable Wrench
Hey Keys/Hex Bits	Power Probe	Wire Cutter	Metric Socket Set	Torque Wrench – In Lbs.
Multimeter	Swivel Band Filter Wrenches	Channellock Pliers	1/4” Drive Flex Handle	Torque Wrench – Ft Lbs.
Backprobe Kit for Multimeter	Crowsfoot Wrenches	Needle Nose Pliers	3/8” Drive Flex Handle	Extension Set for each Drive Size
Lead Extensions for Multimeter	Schrader Valve Tool	Slip Joint Pliers	1/2" Drive Flex Handle	U-Joint Set for each Drive Size
Wire Crimper/Stripper	Pry Bar Set	SAE Combination Wrenches	Drive SAE Sockets	Spark Plug Sockets
Heat Gun/Butane Torch	Screwdriver Set	SAE Line Wrenches	Drive Metric Sockets	Torx Socket Set
Snap Ring Pliers	Metric Combination Wrenches	Metric Line Wrenches	SAE Deep Sockets	Metric Deep Sockets
Punch/Drift/Chisel Set	Gasket Scraper	Razor Blade Scraper	Wire Brush	Test Light
Inspection Mirror	Battery Terminal Cleaner	Tool Grabber (Magnetic and Claw)	Airgun	LED Flashlight
Magnetic Parts Tray	Fuel Line Disconnect Tool Set	Fluke Test Meter	Power Ratchet	Power Impact

Knowledge & Certifications

Name: _____ Date: _____

Technical School: _____ Years of Experience _____

ASE Certifications (circle):

Brakes
Manual Drivetrain & Axles

Suspension & Steering
Auto Trans/Transaxle
Advanced Performance

Heating & A/C
Electric/Electronic Systems
IMAC Certified

Engine Repair
Engine Performance

Repair Procedure

Very Knowledgeable

Somewhat Knowledgeable

Little or No
Experience

Oil Change Service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brake Service, Domestic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brake Service, Foreign	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brake Fluid Flush	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drum & Rotor Replace	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trans Flush Service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trans Filter Service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ball Joints & Tie Rods	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rack & Pinion Replacement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steering Column Repairs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shocks & Struts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stabilizer Bar/Links	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exhaust Repairs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tire Balance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tire Repairs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tire Machine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Battery Service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternator Test & Replace	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical System Diagnostics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oxy-Acetylene Torches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motorvac Fuel System Flush	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heater Hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiator Replacement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water Pump	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>