

## ANSWER KEY TO CHALLENGE SHEET

### GENERAL ENGINE DIAGNOSIS CHALLENGE 3

**Customer's Concern:** The exhaust of the car smells really bad. There is not a lot of smoke, but the smell is bad.

**Customer Vehicle:** Lincoln Mark LT.

#### Possible Causes of This Challenge:

1. Running rich.
2. Catalytic converter malfunction.

#### Safety First Practices to Follow:

1. Properly raise vehicle on lift or use a jack and jack stands.
2. Use appropriate fuel recovery system to empty fuel tank before removing tank.
3. Do not create any sparks when working around gasoline.
4. Connect vehicle system to a vent hose in a closed shop.

#### Tools and Equipment Required:

1. Vehicle service information.
2. Hand tools.
3. Flashlight or shop light.
4. Engine diagnostic machine or oscilloscope.
5. Appropriate scanner or test equipment.