

# Automotive Technology 6<sup>th</sup> Edition

## Chapter 74 – Temperature Sensors

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Engine coolant temperature sensors and testing the engine coolant temperature sensor
  2. Intake air temperature sensor and testing the air intake air temperature sensor
  3. Transmission fluid temperature sensor and cylinder head temperature sensor
  4. Engine fuel temperature sensor (EFT) and exhaust gas recirculation (EGR) temperature sensor
  5. Engine oil temperature and temperature sensor diagnostic trouble codes
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#### **OBJECTIVES:**

1. Describe the purpose, function, and testing of engine coolant temperature sensors.
  2. Diagnose problems resulting from malfunctioning intake air temperature control systems.
  3. Discuss how automatic fluid temperature sensor valves can affect transmission operation.
  4. Describe the purpose of temperature sensors for cylinder heads, engine fuel, exhaust gas recirculation, and engine oil.
  5. This chapter will help prepare for Engine Repair (A8) ASE certification test content area “E” (Computerized Engine Controls Diagnosis and Repair).
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**RESOURCES:** (All resources may be found at <http://www.jameshalderman.com>) Internet access required to hyperlink.

1. **Task Sheet ASE (A8-A-9) P-2:** Temperature Sensor Scan Tool Diagnosis
  2. Chapter PowerPoint
  3. Chapter Crossword Puzzle and Word Search
  4. Videos: [\(A8\) Engine Performance Videos](#)
  5. Animations: [\(A8\) Engine Performance Animations](#)
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#### **ACTIVITIES:**

1. **Task Sheet ASE (A8-A-9) P-2:** Have students complete Temperature Sensor Scan Tool Diagnosis Task Sheet.
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#### **ASSIGNMENTS:**

1. Chapter crossword and word search puzzles.
  2. Complete end of chapter 10 question quiz.
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#### **CLASS DISCUSSION:**

1. Review and group discussion chapter [Frequently Asked Questions](#) and [Tech Tips](#) sections.
  2. Review and group discussion of the five (5) chapter [Review Questions](#).
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#### **NOTES AND EVALUATION:**

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