

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

## Chapter 88 – Catalytic Converters

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Catalytic converters and OBD-II catalytic converters performance
  2. Diagnosing catalytic converters and catalytic converter replacement guidelines
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#### **OBJECTIVES:**

1. Explain the purpose, function, construction, and operation of catalytic converters.
  2. Describe catalytic converter performance in OBD-II vehicles.
  3. Discuss the diagnosis and replacement of catalytic converters.
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**RESOURCES:** (All resources may be found at <http://www.jameshalderman.com>)

1. **Task Sheet ASE (A8-A-5) P-1, (A8-D-11) P-2:** Exhaust System Backpressure Test
  2. **Task Sheet ASE (A8-E-6) P-2:** Catalytic Converter Test
  3. Chapter PowerPoint
  4. Chapter Crossword Puzzle and Word Search
  5. Animations: Catalytic Converter Operation and Catalytic Converter (2004+)
  6. Videos: Catalytic converters (time 3:04) and Bad catalytic converter (time 0:50)
  7. Videos: Understanding catalytic converters (time 4:39) and Scanning catalytic converters (time 1:50)
  8. Videos: Back pressure test (time 5:35)
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#### **ACTIVITIES:**

1. **Task Sheet ASE (A8-A-5) P-1, (A8-D-11) P-2:** Have students complete Exhaust System Backpressure Test Task Sheet.
  2. **Task Sheet ASE (A8-E-6) P-2:** Have students complete Catalytic Converter Test 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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