

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

## Chapter 36 – Gaskets and Sealants

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Purpose and function
  2. Head gaskets, and cover gasket materials
  3. Gasket failures
  4. Oil seals and assembly sealants
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#### **OBJECTIVES:**

1. Discuss the need for gaskets and sealants.
  2. Describe head gaskets and the types of head gaskets.
  3. Discuss cover gasket materials and gasket failures.
  4. Discuss the purpose and function of oil seals.
  5. Discuss the purpose and function of assembly sealants
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**RESOURCES:** (All resources may be found at <http://www.jameshalderman.com>)

1. **Task Sheet ASE (A1-A-5) P-1:** Valve Cover Gasket Replacement
  2. Chapter PowerPoint
  3. Chapter Crossword Puzzle and Word Search
  4. Videos: Blown head gasket (time 6:23) and Head gasket leak test (time 1:06)
  5. Videos: Head gasket check (time 0:54) and Signs of head gasket failure (time 1:11)
  6. Videos: Head gasket leak (time 1:02) and Head gasket (time 14:57)
  7. Videos: Surface preparation (time 10:28) and Rear main seal (time 7:38)
  8. Videos: Front seal replacement (time 6:27) and Rear main seal check (time 1:53)
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#### **ACTIVITIES:**

1. **Task Sheet ASE (A1-A-5) P-1:** Have students complete Valve Cover Gasket Replacement 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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