**Advanced Engine Performance Diagnosis 8th Edition**

**Chapter 28 – Module Reprogramming**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Module Software Update, SAE Standards, Programming Hardware, and Programming Software

2. Reprogramming, Battery Voltage, Programming Problems and Concerns, and Aftermarket Reprogramming

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**OBJECTIVES:**

1. List the benefits of module reprogramming over previous methods of update.

2. Describe the regulatory requirements of J2534.

3. List the hardware used for programming.

4. List the software used for programming.

5. Describe the methods of module reprogramming.

6. Explain the need for a battery maintainer during reprogramming.

7. Describe the concerns of programming in the shop.

8. Describe aftermarket reprogramming. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**RESOURCES:** (All resources may be found at jameshalderman.com)

1. Task Sheet: Module Reprogramming

2. Chapter PowerPoint

3. Crossword and Word Search Puzzles

4. Videos: (A8) Computerized Engine Controls Diagnosis and Repair

5. Animations: (A8) Computerized Engine Controls Diagnosis and Repair

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**ACTIVITIES:**

1. Task Sheet: Module Reprogramming

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**ASSIGNMENTS:**

1. Chapter crossword and word search puzzles from the website.

2. Complete end of chapter quiz from the textbook.

3. Complete multiple choice and short answer quizzes downloaded from the website.

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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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