**Automotive Technology 7th Edition**

**Chapter 129 – Continuously Variable and Dual-Clutch Automatic Transmissions**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Continuously Variable Transmission (CVT), Construction, and CVT Electronic Controls

2. CVT Operation, Pressure Testing a CVT, CVT Fluid, and CVT-Related Diagnostic Trouble Codes

3. Dual-Clutch Automatic Transmissions, Dual Clutch Transaxle, and Diagnosis and Service

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**OBJECTIVES:**

1. Describe the function, advantages, and disadvantages of a continuously variable transmission.

2. Describe the construction of a continuously variable transmission.

3. Discuss the electronic controls of a CVT.

4. Discuss the operation of a CVT.

5. Explain CVT pressure testing.

6. Discuss CVT fluid.

7. Discuss CVT-related DTCs.

8. Discuss the parts and operation of a dual-clutch automatic transmission.

9. Discuss the dual-clutch transaxle.

10. Describe the diagnostic and service procedures for a dual clutch transmission/transaxle system. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: Continuously Variable Transmission

2. Crossword Puzzle and Word Search

3. Chapter PowerPoint

4. Videos: [(A2) Automatic Transmissions and Transaxles Videos](https://jameshalderman.com/a2_vid_lib_page/)

5. Animations: [(A2) Automatic Transmissions and Transaxles Animations](https://jameshalderman.com/a2_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Continuously Variable Transmission

2. Crossword Puzzle and Word Search

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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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