**Automotive Chassis Systems 8th Edition**

**Chapter 20 –** **Electronic Stability Control Systems**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. The Need for Electronic Stability Control and Federal Motor Safety Standard (FMVSS) No. 126

2. Sine with Dwell Test, ESC Sensors, Traction Control, and ESC/TC Diagnosis

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**OBJECTIVES:**

1. Discuss the need for electronic stability control (ESC).

2. List the requirements for ESC systems.

3. Describe how to test the functioning of an ESC system.

4. List the sensors needed for the ESC system.

5. Describe how a traction control (TC) system works.

6. List the steps in the diagnostic process for ESC and TC system faults.

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**RESOURCES:** [(All resources may be found at jameshalderman.com)](https://jameshalderman.com/)

1. Task Sheet: Traction Control/Vehicle Stability

2. [Crossword Puzzle and Word Search](https://jameshalderman.com/a5_puzzles_lib_page/)

3. [Videos: ASE A5 Brakes](https://jameshalderman.com/a5_vid_lib_page/)

4. [Animations: ASE A5 Brakes](https://jameshalderman.com/a5_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Traction Control/Vehicle Stability

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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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