

Automotive Electrical and Engine Performance - 9th edition

Ch24: Scan Tools

Lesson Plan



CHAPTER SUMMARY:

1. Malfunction Indicator Lamp (MIL), Data Link Connector (DLC), Scan Tools, and Using a Scan Tool
2. Diagnostic Information and Pre- and Post- Scans

OBJECTIVES:



1. Discuss the operation of the malfunction indicator lamp (MIL).
2. Explain the location and terminals of the data link connector (DLS).
3. Describe the function and types of a scan tools.
4. Explain how to use a scan tool.
5. Describe diagnostic trouble codes (DTCs) and freeze frame data.
6. Explain why pre- and post-scans are needed.

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



1. Task Sheet: Testing Using a Scan Tool
2. Task Sheet: Retrieve DTCs, Monitor Status & Freeze Frame
3. Crossword Puzzle and Word Search
4. Videos: (A6) Electrical/Electronic Systems Videos
5. Animations: (A6) Electrical/Electronic Systems Animations

ACTIVITIES:



1. Task Sheet: Testing Using a Scan Tool
2. Task Sheet: Retrieve DTCs, Monitor Status & Freeze Frame
3. Crossword Puzzle and Word Search
4. Chapter PowerPoint
5. Crossword Puzzle and Word Search

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.

CLASS DISCUSSION:



1. Review and group discussion chapter Frequently Asked Questions and Tech Tips sections.
2. Ten (10) question end of Chapter Quiz.
3. Five (5) end of chapter Review Question for class discussion.

NOTES AND EVALUATION:

