## Electric and Hybrid Electric Vehicles, 1st Edition

. Why is a DC signal that changes called a pulse train?  2. What is the benefit of recording oscilloscope and DSO waveforms?  3. What is the difference between DC coupling and AC coupling?  4. What is the purpose of a trigger when capturing data on a DSO?	
ANSWER. Write the word or phrase that best completes each statement or answers the question. Why is a DC signal that changes called a pulse train?  2. What is the benefit of recording oscilloscope and DSO waveforms?  3. What is the difference between DC coupling and AC coupling?  4. What is the purpose of a trigger when capturing data on a DSO?  5. What are the differences between an analog and a digital oscilloscope?	
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	between DC coupling and AC coupling?
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Answer Key

Testname: EV1SHORT06

1. A DC voltage that turns on and off in a series of pulses is called a pulse train. Pulse trains differ from an AC signal in that they do not go below zero.

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- 2. The data would be saved and then reviewed in an effort to determine what failure had occurred. Page Ref: 72
- 3. DC coupling is the most used position on a scope because it allows the scope to display both alternating current (AC) voltage signals and direct current (DC) voltage signals present in the circuit.
  - When the AC coupling position is selected, a capacitor is placed into the meter lead circuit, which effectively blocks all DC voltage signals, but allows the AC portion of the signal to pass and be displayed.

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4. A scope will start displaying a voltage signal only when it is trig- gered or is told to start. The trigger level must be set to start the display.

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- 5. An analog scope uses a cathode ray tube (CRT) similar to a television screen to display voltage patterns. The scope screen displays the electrical signal constantly.
  - A digital scope commonly uses a liquid crystal display (LCD), but a CRT may also be used on some digital scopes. A digital scope takes samples of the signals that can be stopped or stored and is therefore called a digital storage oscilloscope (DSO).

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