1) Wha ——	at are some of the other names used to identify an electronic stability control (ESC) system?
 2) Wha	It sensors are used in the electronic stability control system?
	at action does the traction control system perform to help the drive wheels maintain traction durin leration?

5) What is the "sine with dwell" test?

Answer Key

Testname: CHASSIS8-SHORT20

- 1) Some of the names include: Vehicle Stability Assist (VSA); Electronic Stability Program (ESP); Vehicle Dynamic Control (VDC); Dynamic Stability Control (DSC), and Vehicle Stability Control (VSC).

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- 2) The sensors used in most Electronic Stability Control (ESC) systems include the steering wheel (handwheel) sensor, Vehicle Speed (VS) sensor, lateral acceleration sensor, and yaw rate sensor.

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- 3) The controller performs some or all of the following to help restore drive wheel traction during acceleration:
 - Retard ignition timing to reduce engine torque
 - Decrease the fuel injector pulse-width to reduce fuel delivery to the cylinder to reduce engine torque
 - Reduce the amount of intake air if the engine is equipped with an electronic throttle control (ETC); reduced airflow will reduce engine torque.
 - Up-shift the automatic transmission/transaxle. If the transmission is shifted into a higher gear, the torque applied to the drive wheels is reduced.

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- 4) Oversteering means that the rear wheels loose traction and the vehicle can spin out of control. Understeer means that the vehicle tends to continue traveling straight when turning a corner.
- 5) A "sine with dwell" test is performed to verify that the electronic stability control system (ESC) can operate correctly and keep the vehicle under control.

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