Name of Unit:Electronics and computer systems service	
Grade	**11-12**
Unit of Study	Electronics and computer systems service
Length of Unit	**15 days**

ASE Standards

VI.G.5 Demonstrate testing of body electronic system circuits using a scan tool; check for module communication errors (data communication bus systems); determine needed action. P-3 **VI.G.6 Describe the process for software transfer, software updates, or reprogramming of electronic modules. P-3** **VIII.B.3 Perform active tests of actuators using a scan tool; determine needed action. P-2**	

Unit {#}: Learning Targets

Diagnose related engine and electrical problems prior to computer repair.
Describe the theory and operation of on-board diagnostics.
Read diagnostic trouble codes.
Use a scan tool.
Confirm closed loop.
Test sensors and actuators.
Diagnose computer wiring problems.
Diagnose and replace a computer.

Intervention and Enrichment

If unable to pass skill, reteach and reassess

Assessments

MLS (Learning Goal)	Description or Location

Students questioned as to the learning targets and skill sets observed by instructor	

Vocabulary			
Module	Actuators	Closed Loop	

Instructional Materials

Automotive Service by cengage (Tim Gilles) 6th ed

Additional Instructional Resources

Reflections for Future Revisions