



## SLO Assessment Cycle for AUTO 60F

No-Start Diagnosis

Assessment Initiated by: John Walton (8508) in AUTO

### Outcomes:

#### Outcome 1: Statement

Student will identify basic internal combustion principles for the gasoline engine. Student will diagnose a no-start condition in which the storage battery, starter, or charging system is faulted. Student will differentiate ignition system primary and secondary faults. Student will apply the appropriate diagnostic steps for a given no-start symptom. Student is able to formulate a diagnostic plan based on provided data parameters. Student will assess the performance of a fuel delivery system.

### Assessment Cycle Records:

#### Outcome 1: Assessment Planning Modified: [03/16/2011]

#### Assessment Strategy Used:

Quarter: Winter 2011

Assessors: John Walton

Assessment Tools: Exams

Sections being assessed: 206

#### Outcome 1: Reflect & Enhance Modified: [03/16/2011]

Number of people involved in Reflection and Enhancement: 2

#### Changes:

#### Methods:

The assessment method for Auto 60F is the final exam.

#### Summary:

60F assessment summary:

1. Student will identify basic internal combustion principles for the gasoline engine.

Exam Questions: none applicable as of winter 2011

missed out of possible . missed

Student average missed

2. Student will diagnose a no-start condition in which the storage battery, starter, or charging system is faulted.

Exam Questions:1,4,5,18

23 missed out of possible 72. 31% missed

Student average 31% missed

3. Student will differentiate ignition system primary and secondary faults.

Exam Questions:12,13,14,15,16,19,20,21,22,

48 missed out of possible 162. 29% missed

Student average 29% missed

4. Student will apply the appropriate diagnostic steps for a given no-start symptom.

Exam Questions:2,3,6,7,8,9,10,35,36,37,

21 missed out of possible 180. 11% missed

Student average 11% missed

5. Student is able to formulate a diagnostic plan based on provided data parameters.

Exam Questions:17,30,31,32,33,34,38

28 missed out of possible 126. 22% missed

Student average 22% missed

6. Student will assess the performance of a fuel delivery system.

Exam Questions:23,24,25,26,27,28,29

31 missed out of possible 126. 24% missed

Student average 23% missed

**Enhancement (Part I):****Enhancement**

Part I: Describe how the assessment results will be applied to enhance or improve student learning: content, teaching methods, assignments, course evaluation procedures, the SLO.

The overall results of this assessment are indicating that the majority of instruction has been affective. As a result of the SLO I have discovered that I am not evaluating a portion of the class instructional content. As indicated by a lack of exam questions covering basic internal combustion principles for the gasoline engine. Overall I believe the students have a good understanding of no start principle systems. I plan to emphasize a diagnostic procedure that is more comprehensive. This should increase the likelihood that a student will be able to diagnose in a logical order.

**Enhancement (Part II):**

I plan to adapt auto 60F in accordance to changes in the automotive repair industry, that is as soon as new systems, tools, and methods are developed. A growing area of auto repair is updating or reprogramming on board electronic control units. This is going to require subscriptions to various technical resources for the purpose of software downloads as required by the SAE J2534 standard.

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[ Number of Outcomes for AUTO 60F: 1 ]