



SLO Assessment Cycle for AUTO 60J

Advanced Lab Scope and Waveform Diagnosis

Assessment Initiated by: John Walton (8508) in AUTO

Outcomes:

Outcome 1: Statement

Student will understand the various designs and applications of the diagnostic oscilloscope and power graphing meter. Student will interpret a diagnostic waveform as applicable to a drive fault. Student will summarize the functions of a lab scope. Student

Assessment Cycle Records:

Outcome 1: Assessment Planning Modified: [06/23/2011]

Assessment Strategy Used:

Quarter: Spring 2011

Assessors: John Walton

Assessment Tools: Exams

Sections being assessed: 95

Outcome 1: Reflect & Enhance Modified: [06/23/2011]

Number of people involved in Reflection and Enhancement: 2

Changes:

Methods:

The assessment tool for 60J is the final exam

60J Summary:

Summary Items 1 - 3 below:

Total number of exams scored = 18

1. Student will understand the various designs and applications of the diagnostic oscilloscope and power graphing meter.
Correct = 78%
2. Student will interpret a diagnostic waveform as applicable to a drive fault.
Correct = 74%
3. Student will summarize the functions of a lab scope.
Correct = 67%

Summary:

The students are ready and understand the value of the oscilloscope. The oscilloscope has a steep learning curve and presents a few challenges even for the advanced students. There are many valuable tests and diagnostic skills to learn. The students are especially challenged when it comes to summarizing the functions of a lab scope.

Enhancement (Part I):

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As a result of this SLO interpretation I have discovered a need for increased demonstrations and practical case studies. The course syllabus needs some refinement, increasing the number of worksheets and sample waveforms.

Enhancement (Part II):

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Future enhancements for 60J will include expanded use of PC based oscilloscopes such as the PICO 4 channel. The PICO has been adopted by Toyota as a proprietary factory tool.

[Number of Outcomes for AUTO 60J: 1]