## Lecture and Extra Credit Assignment on Standards for Testing and Characterization(Copied from Blackboard MEEN 3349 web page)

The use of Standards and Codes are very useful in Mechanical Engine with mount them we couldn't specify a standard steel or aluminum, or even know what connectors to use to charge our phones, or fill up our cars with gas.

One of the ABET Student Outcomes that we want students to have/kn#68vAsn ability to recognize the need for relevant codes and standards.

Also, we have a grant from NIST (National Institute of Standards), call@utheular Integration of Design andMaterial Standards in Engineering (CMDaSE). The goal of this project is to instill deep understanding and appreciation of established standards and codes, standardization, and standards development processes into students to promoterlifeuse of standards in their professional careers. It focuses on standards related to engineering design, and material testing and characterizatiohlere is apresentation using ASM Standardsthat I gave for that program.

If you want to get a certificate ib ndergraduate Certificate on Standards for Material Testing, Characterization and Applications then go to this website for details.

The extra creditassignments to create a series of ultiple-choic equestions that relate either to the ABET Student Outcome 8, or to the MaSE program, on promoting the use of standards and codes on engineering design, and material testing and chair and chair

You can start the Extra Credit Assignment by going to HM/e Quizzes, & Exansection and clicking on the linkor the assignment

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## Sample student Responses

Create a multiple choice question (similar to one of the examples, with designated correct answer) that relates to our ABET Student Outcome #8 An ability

Create another multiple choice question (similar to one of the examples, with designated correct answer) that relates to our ABET Student Outcome #8 An ability to recognize the need for relevant codes and standards. You can try to evaluate a student's understanding, knowledge, etc with your question.

GivenAnswer: Why does the AMSE have codes?

- a) to make them look official
- b) to have a standard to compare materials to
- c) to have more say in testing
- d) to make sure all like materials are accounted for

correct ans= B