AN INFORMATION LITERACY APPROACH TO STANDARDS EDUCATION

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Background

- Purdue Libraries-MET program partnership
- Prof. McPherson's class
 - "everyday objects" standards assignment
- Faculty discomfort
 - 49% of survey respondents reported
 "lack of faculty expertise" as an
 impediment to teaching about standards
 (Khan, Karim, & McLain, 2013)





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Project

Open Standards Education Platform

- Interactive, online modules (4)
- Case study assignments written, video
- Case study database
- Badging



Online Module Details

1. An Introduction to Standards for Product Design

- Purpose & value of standards
- Major kinds of standards and their uses
- Process of creating & revising standards
- SDO's who create standards commonly used in product design

2. Anatomy of a Standard

- Parts of a standard
- How to navigate a standards document
- Differences between standards and other publication types



Online Module Details... cont.

3. Discovering & Locating Standards

- Develop appropriate terminology and strategies to search for standards
- Databases and websites for standards discovery
- Locate and access the full text of standards documents

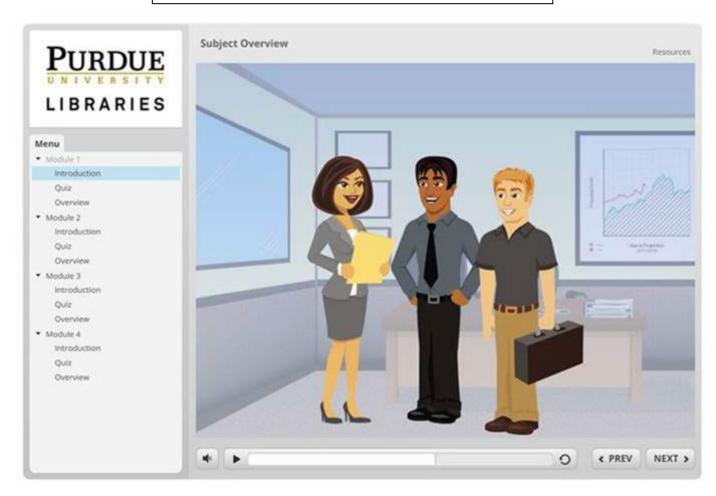
4. Standards in Everyday Objects

 Determine what kinds of standards might apply to an artifact, or a component of the artifact.



Online Module Development

Articulate Storyline 2



CASE STUDIES & DATABASE

Case study assignments

- Written cases
 - 1-2 pages
- Video cases
 - demonstrating students performing standards-in-action

Database

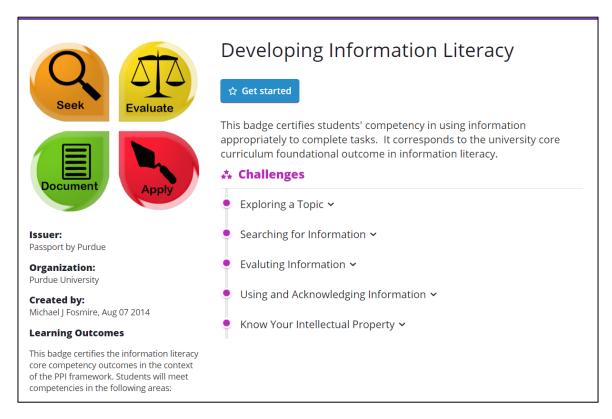
- Contains shareable links to student-produced cases
- Searchable by:
 - Standard (SDO, title, number)
 - Item/topic
 - Companies that utilize the standard



Badging

Transferable credentials

Purdue Passport platform: www.openpassport.org





Questions?



REFERENCES

A. S. Khan, A. Karim, and J. A. McClain, "The state of the use of standards in engineering and technology education," in *ASEE Annual Conference and Exposition*, ID# 7948, 2013.

