

# *NETC Search and Retrieval*

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# *Shift to Modularized Content*

- **NETC has not been effective in centrally managing, reposing or configuration control of content.**
  - **An example is NETC currently has 5 similar but different Electrical Safety pieces of Training content in the LMS Production environment.**
- **Until recently Navy eLearning (NeL), Content Package metadata is the only level validated and published with the content.**
- **In order for NETC to be more effective in content management, both content AND its metadata must shift from tagging at the Content Package (Lesson) level to tagging at the SCO (Instructional Module) level.**
- **This is only possible if these SCOs and SCORM Assets are properly “tagged” with formatted metadata in a centrally managed system.**



# *Metadata Trade-Offs*

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- **More metadata elements equates to higher LOE per SCORM Asset – multiplied by potentially tens of thousands of SCORM Assets to go in our proposed repository.**
- **The trade-offs: Using only the most searchable metadata elements balanced with implementation costs in order to reach a definable measureable cost benefit.**
- **Increase in LOE effort would be mitigated by developing a new system or adapting an existing COTS metadata tagging system with drop-down vocabularies and default data families. The system would have to work in conjunction with the proposed metadata repository.**



# NETC Future work

- **First Step** was to defined the requirements for tagging content (completed Feb 12)
- **Second step** is to develop a Functional document to define the business rules, applications and IT infrastructure(in progress)
- **Third Step** is a pilot project with ADL to test functionality for the repository requirements



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Canc: Feb 13

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 COO

FEB 29 2012

NETC NOTICE 1500

From: Commander, Naval Education and Training Command

Subj: REQUIREMENTS FOR TAGGING METADATA IN CONTENT PACKAGES

Ref: (a) NAVEDTRA 136

Encl: (1) NETC Content Package Metadata Schema

1. Purpose. This notice replaces the metadata tagging process for content packages defined in reference (a) until it can be revised in its entirety. Enclosure (1) provides a uniform list of data elements for metadata to be provided with any content delivery package.

2. Background. Metadata is used to facilitate and improve the retrieval of information. It is data used to further describe and capture data or containers of data (e.g., training content defined in reference (a) as the "content package"). Metadata can be stored and managed in a repository to increase the ability to reuse, repurpose, and reference (R3) content by removing duplication of development and, consequently, funding to support that development, leading to more efficient processes across the training domain. To capitalize on these efficiencies, Naval Education and Training Command (NETC) must transition to utilization of modularized learning content and capture of its associated metadata, shifting from "Lesson" level data capture to the more detailed "Instructional Module" level data capture. In order to create a viable content repository for R3, metadata collection must be standardized in accordance with enclosure (1) of this notice. Appendix C of reference (a) contains a list of required metadata fields. Additionally, Learning Object Module (LOM) major headings for metadata (e.g., Life Cycle, Technical, Educational, Rights, Relation, Classification, etc.) can further assist in the standardization of the metadata required to support R3 of content.