

SATERN System for Administration, Training, and Educational Resources for NASA

Developing Custom Content in SATERN

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Session Objectives

At the end of the session, participants will:

- Know what online custom content is
- Be familiar with the requirements for online content
- Be familiar with the general process of placing online content into SATERN
- Know some of the configuration options available
- Know how the SATERN Content Development Team can help them with their online content
- Be familiar with some of the costs involved



<u>Agenda</u>

- Overview
- Rules and Requirements for SATERN
- General Process for Online Content
- Configuring Online Content
- SATERN Content Development Team
- Costs
- Summary
- Questions



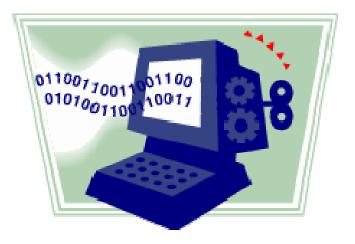
What is Online Custom Content?

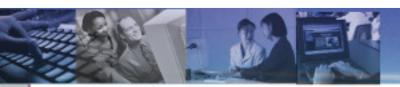


What is Online Custom Content?

Online custom content usually refers to:

- Online Training Courses
- Training Validations
- Tests
- Course Evaluations
- Supporting Documents

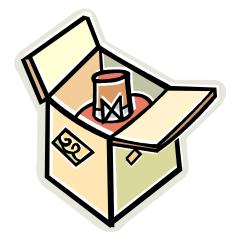




What is Online Custom Content?

You can configure your online content by using:

- Items
- Content Objects
- Tests
- Documents





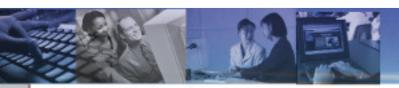
Rules and Requirements



All SATERN online custom content must:

- Meet SATERN Requirements
- Be Section 508 Compliant
- Meet NASA Internet Publishing Guidelines
- Be SCORM Conformant
- Have a Subject Matter Expert assigned





SATERN Requirements:

- Must be accessible on Windows platforms using Internet Explorer 6 and Mozilla 1.7^{*}
- Must be accessible on Mac OS X platforms using Safari 1.2 and Mozilla 1.7 *
- Must be coded in a format supported by SATERN
- Must meet other standards

* Mozilla and Firefox are <u>not</u> the same!



SATERN Requirements:

Supported Formats:

- Flash
- DHTML
- JavaScript
- MP3 Audio
- RealAudio/RealVideo
- Shockwave
- Windows Media Player Video

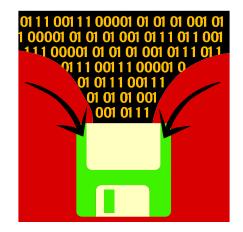
Unsupported Formats:

- Adobe Authorware
- ASP
- ColdFusion
- JSP
- PHP



Other Standards:

- Content should be self-contained
- Files should not contain spaces
- Links to websites outside of the training should open a new browser window
- Avoid horizontal scrolling





Section 508 of the Rehabilitation Act:

- NASA Section 508 Web Policy
 - <u>All</u> NASA Websites are required to meet Section 508 Standards
 - Provide a reasonable accommodation to impaired viewers
- Portions of Section 508 that most pertain to online content
 - 1194.22 Web-based Internet and Internet Information and Applications
 - 1194.24 Video and Multimedia Products



NASA Internet Publishing Guidelines (NITR-2810-3)

- Controls what types of information may be put on a publicly accessible website
- SATERN is not necessarily a public website, but precautions should still be taken to protect information in your content.



SCORM (Sharable Content Object Reference Model)

- Designed by Advanced Distributed Learning (ADL)
- A way to package your content to make is easier to share with other Learning Management Systems
- SATERN is SCORM 1.2 conformant
- SATERN implements SCORM using Java applets and JavaScript
- Allows the course to pass data to SATERN which can be utilized later

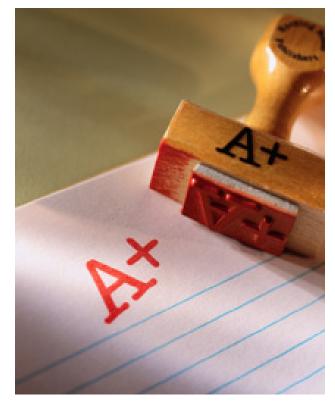


General Process for Implementing Online Custom Content



Tests

- You can attach a test object to any training object.
 - Determine if you want to have any objectives
 - Compose your questions and answers in a text editor
 - Determine how many questions you want on the test
 - Decide the test pass criteria
 - Send everything to the SATERN Content Development Team





Supporting Documents

- Supporting documentation can be attached to online and instructor-led training.
 - Make sure your documentation is Section 508 compliant
 - Send your documents to the SATERN Content Development Team
 - Documents appear in the 'Related Documents' section of the Item Details page

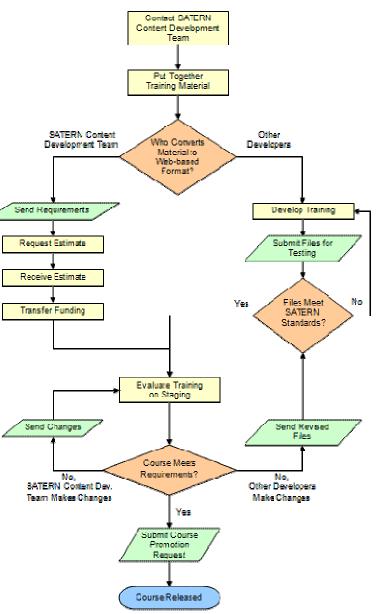




Online Training Content

The process for developing online training varies for almost every course.

- Contact the SATERN Content Development Team if you have questions
- Plan out your training
- Determine if you want audio/video
- Decide if you want a test or not
- Choose how you want to convert the material to a web-based format
 - Your own developers
 - SATERN Content Development Team





Online Training Content

- If your developers convert your material to a web-based format:
 - Make sure that they know the SATERN regulations
 - Evaluate their work to make sure it meets your requirements.
 - Send the 'final' version to the SATERN Content Development Team
 - Training will be evaluated for Section 508 and SCORM
 - If not conformant, a report will be provided of problem areas



Online Training Content

If choose the SATERN Content Development Team to convert your material to a web-based format:

- Contact the team: <u>MSFC-DL-Satern-Courses@mail.nasa.gov</u>
- Provide a copy of your training
- Provide your requirements
- Request an estimate



Online Training Content

When your training meets the SATERN regulations, it will be loaded to the SATERN Staging server

- Test it to make sure that it works the way you want
- Try different configurations
- Make revisions to your material
- You may have multiple people evaluating your training



Online Training Content

Once you are happy with the training it will be moved to the Production server and made available to learners.



Configuring Online Custom Content

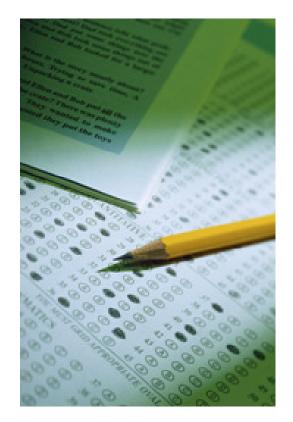


Configuring Online Custom Content

Tests

You have many options available when configuring a SATERN test object:

- Objectives
- Question Pool
- Pass Percentage
- Allow access to online training content during test
- Allow a test pass to grant credit for entire course
- Allow learner to review missed questions
- Provide custom messages to learner at certain points in the test



Configuring Online Custom Content

Online Training

You can configure your online training item as well:

- Force learners to take objects on Content Structure page in order
- Arrange objects in the order that you wish
- Choose which catalog the course should be in
- Choose what subject area(s) you want the course in
- Assign the mandatory Subject Matter Expert
- Specify a target audience
- Assign goals to the training
- Set a retraining period for the course

Note: If you do not have a SATERN test object as part of your training item, all the objects become required components of the course and must be completed for credit to be given to the learner.



Updating Online Custom Content After It Has Been Released



Updating Online Custom Content after Release

Updates

You can make modifications to your online content after it is released to learners.

- Determine who you want to make the updates
 - Your own developers
 - The SATERN Content Development Team
- Send revisions to the SATERN Content Development Team for Section 508 and SCORM testing
- Decide if you want to review the changes before they are released to learners



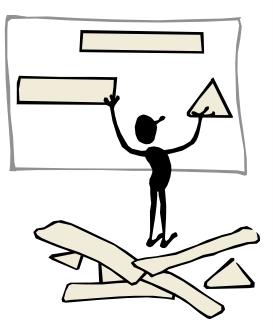


Updating Online Custom Content after Release

Revisions

SATERN Items can be revised and given a new date/time stamp and/or revision number

- Pros:
 - Allows you to see which version of training a learner has taken
 - Automatically updates learning plans and curriculums



- Cons:
 - Does not remove the old revision from learning plans



How the SATERN Content Development Team Can Help



We're here to assist you in getting your training materials into SATERN. We can:

- Answer any online content related questions
- Convert material into a web-based format
- Fix Section 508 issues
- Fix SCORM issues
- Scan for Section 508/SCORM conformance
- Generate SATERN tests
- Transfer courses/tests/documents to SATERN
- Load and configure courses/tests/documents





Potential Costs

Potential Costs

From the SATERN Content Development Team:

- Converting material to web-based format
- Making extensive revisions to a course
- Fixing Section 508/SCORM issues
- Generating a SATERN test
- Scanning for Section 508/SCORM conformance

External Costs

- Development costs from other developers
- Audio/Video recording
- Streaming server hosting





Summary

Summary

- Online custom content can be training, evaluations, tests, and documents
- Requirements: Section 508, SCORM, NASA, SATERN
- General Process: Contact the SATERN
 Content Development Team
- Multiple ways to configure training and tests
- SATERN Content Development Team can help you
- There may be some costs involved







Questions?

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