

# Testing Online Training Courses

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Online Training Courses must be thoroughly tested prior to creating them in the LMS Production Environment. The LMS Staging Environment was created for the purpose of testing functionality, new reports, and new courses.

The URL for the Staging Environment is <https://staging.learning.hhs.gov/Saba/Web/Main>. Please reach out the LMS Team to provide you with login credentials if you do not have them.

## 1.0 Testing Functionality Features of the Course

The functional testing is conducted to ensure the online course behaves according to the functional requirements. Use cases are developed to validate that all functions outlined in the requirements are present in the online course and work as intended. This testing should not be performed by the people who created the training course – it is much better to have persons do this testing who have not seen the course before or is familiar with the requirements.

The following is a list of functionality items/features/functions to be tested. Testing these items ensure that everything within the course work as expected:

<i>Item</i>	<i>Test Description</i>	<i>Test Date</i>	<i>Responsibility</i>	<i>Pass/Fail</i>
1-1	<i>Test the outgoing links from all pages of the course</i>			
1-2	<i>Test all internal links</i>			
1-3	<i>Test links jumping on the same pages</i>			
1-4	<i>Test links used to send email to admin or other users</i>			
1-5	<i>Test to check if there are any orphan pages</i>			
1-6	<i>Test any forms contained on the pages</i>			
1-7	<i>Check any validations there may be on a field</i>			
1-8	<i>Check for default values of fields</i>			
1-9	<i>Test for any LMS-set value errors</i>			

## 2.0

### Testing Usability Features of the Course

Usability testing includes ensuring that the course should be consistent throughout and easy to use. Instructions should be provided clearly. Check the provided instructions to ensure they are correct and satisfy their purpose.

Test for all the navigation on all of the course pages, and other means that the learner can use to move through the course, using different controls like buttons, boxes, or how the user can use a course map to get to different pages in the course.

There should be an exit button and a menu button on each page. The content should be logical and easy to understand. There should be no spelling errors. Dark colors and annoying fonts should not be used in the course theme.

The following is a list of usability items/features/functions to be tested:

<i>Item</i>	<i>Test Description</i>	<i>Test Date</i>	<i>Responsibility</i>	<i>Pass/Fail</i>
2-1	<i>Test all navigation buttons on every page</i>			
2-2	<i>Test that all instructions are clear and easy to understand</i>			
2-3	<i>Test that all pre and post test questions are correct</i>			
2-4	<i>Test for Section 508 compliance</i>			
2-5	<i>Check for any spelling errors</i>			
2-6	<i>Check for any alignment errors with pictures and text</i>			
2-7	<i>Test for modules marking complete if taken in different order</i>			
2-8	<i>Test for use of annoying colors, fonts, frames, etc.</i>			
2-9	<i>Check that images are placed properly with proper sizes</i>			
2-10	<i>Test user information for user help</i>			
2-11	<i>If sitemap is present, check all links for proper</i>			

<i>Item</i>	<i>Test Description</i>	<i>Test Date</i>	<i>Responsibility</i>	<i>Pass/Fail</i>
	<i>navigation</i>			
<i>2-12</i>	<i>Check that the course bookmarks properly and returns you to the proper page after exiting and re-launching the course</i>			
<i>2-13</i>	<i>Check that the course marks complete and moves to transcript</i>			

### **3.0 Testing Browser and System Compatibility of the Course**

This section describes Compatibility testing which tests the course or component parts of it on specific computer platforms and browsers to ensure compatibility.

Computers being used for this testing should have current versions of required softwares to run online training courses.

Prior to testing run the Skillsoft Browser Capability Check to test the system to ensure the online course will launch and function properly. If any of the tests fail, make the necessary changes to the system.

1. Ensure that pop-up blockers are turned off
2. Ensure latest version of Java Virtual Machine is installed
3. Ensure latest version of Adobe Flash is installed.

Test each browser and computer system with the Skillsoft Browser Capability Check prior to testing each test scenario.

The following computer platforms and browsers are tested to insure their compatibility:

<i>Item</i>	<i>Test Description</i>	<i>Test Date</i>	<i>Responsibility</i>	<i>Pass/Fail</i>
<i>3-1</i>	<i>IBM Compatible PC with Internet Explorer 8</i>			
<i>3-2</i>	<i>IBM Compatible PC with Internet Explorer 9</i>			
<i>3-3</i>	<i>IBM Compatible PC with Internet Explorer 10</i>			
<i>3-4</i>	<i>IBM Compatible PC with Internet Explorer 11</i>			
<i>3-5</i>	<i>IBM Compatible PC with Firefox</i>			

<i>Item</i>	<i>Test Description</i>	<i>Test Date</i>	<i>Responsibility</i>	<i>Pass/Fail</i>
3-6	<i>IBM Compatible PC with Google Chrome</i>			
3-7	<i>64-bit Macintosh Computer with Safari browser</i>			
3-8	<i>64-bit Macintosh Computer with Firefox browser</i>			