

Accessibility Audit
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WCAG 2.2 Level AA Accessibility Audit

Course: [REDACTED]

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Reviewer: Caitlin Bartholic

Executive Summary

This report describes the conformance of [REDACTED] with Accessibility Guidelines (WCAG 2.2 Level AA). Through manual and evaluation tools several barriers were detected with supplementary issues pinpointed at the end. Most barriers relate to settings within Storyline causing keyboard and screen reader functionality failure.

Based on this evaluation, [REDACTED] does not meet WCAG 2.2, Conformance Level AA. The barriers are listed in order of severity in the conformance summary below, followed by general recommendations and QA findings.

Evaluation Methods and Tools Used

1. Manual Testing with [W3C's WCAG 2.2 Guidelines](#)
2. VoiceOver Screen Reader (exported web course on Mac)
3. NVDA Screen Reader (Storyline Preview on PC)
4. WebAIM Contrast Checker
5. Storyline Accessibility Checker

Severity Ratings

Accessibility barriers are rated using a four-point severity scale.

1. **Critical:** Content or functionality is completely inaccessible to some users.
2. **Significant:** Content or functionality is very difficult for some users.
3. **Moderate:** Content or functionality may require additional time or effort for some users because accessibility or usability guidelines and best practices are not followed.
4. **Recommendation:** Content or functionality can be made more usable for everyone by aligning with best practices.

Global Accessibility Considerations

Shapes/Icons/Text Boxes as “Buttons”

Remarks and Explanations: Throughout the eLearning course there are interactive shapes, icons, or text boxes used as “buttons”. When items are grouped, some items serve as triggers but are invisible to accessibility tools, while other items are visible but not triggers, which leaves these interactive elements inaccessible to keyboard and screen reader users.

Recommendation:

These are several options for remediating this issue. For each type of item choose one consistent way to make “buttons” accessible. For example, all “Back” and “Next” buttons should use the same method.

Option 1: When using shapes as buttons, insert the text directly in the shape without adding an extra text box. Make sure the shape is visible to accessibility tools and has the appropriate trigger.

Option 2: When using icons as buttons, start with a shape and insert the icon into the “Normal” state of the shape. Make sure the shape is visible to accessibility tools with descriptive alt text and has the appropriate trigger.

Option 3: When using a group of items as a button, instead of leaving items in a group, make items invisible to accessibility tools. Add a shape overlay (it can be transparent) over the group of items. Make the shape visible to accessibility tools, and add alt text identical to any text under the shape overlay that is visible to sighted users.

Make sure all clickable areas are large enough or surrounded by enough space to be easy selected. (WCAG 2.5.8 [Level AA])

Alt Text for Interactive Elements

Remarks and Explanations: Some alternative text on buttons in this eLearning course describe the appearance and colors of the buttons, which doesn’t add any necessary context to the learning content and can be frustrating for screen reader users to hear descriptions of element appearance before or in lieu of element function.

Recommendation: Unless the appearance adds necessary context, alt text for elements that serve as buttons should describe only the action of the button. Remove descriptions of shapes and colors, and create concise and consistent alt text for “button” functions. Make sure alt text aligns with course descriptions of different icon and button function.

WCAG 2.2 Conformance Summary

WCAG Success Criterion: 2.1.1 Keyboard [Level A]

Severity Level: Critical

Slide: 2. Navigation Yes/No

Remarks and Explanations: The “Yes button” text has no set trigger and cannot be selected using a keyboard. This is a barrier to all users who are not able to use a mouse, including people with low or limited vision and people with limited hand mobility or fine motor control.

Recommendation: The “Yes” text is visible to accessibility tools, but the shape has the trigger. Change the setting to match the “No” button, or following suggestions above for shapes/icons as buttons.

WCAG Success Criterion: 2.1.1 Keyboard [Level A]

Severity Level: Critical

Slide: 8. Glossary

Remarks and Explanations: The tabs are not selectable by keyboard and only function with a mouse click. The shapes creating the tabs have the trigger but are not visible to accessibility tools. The text box is set to visible but does not have the trigger. This is a barrier for those with mobility issues who use keyboard-only or assistive tech including screen readers.

Recommendation: Assign triggers to the text boxes and remove triggers from the shapes, or follow above advice for shapes/icons/text boxes as buttons.

WCAG Success Criterion: 2.1.1 Keyboard [Level A]

Severity Level: Critical

Slide: 10.1 Choose accessible templates

Remarks and Explanations: “Step 3” button is not selectable by keyboard. This is a barrier for those who use keyboard-only or assistive tech including screen readers.

Recommendation: Make the “Step 3” group visible to accessibility tools with appropriate alt text, or follow recommendation above for buttons/icons/text boxes as buttons. Remove visual descriptions of buttons and only describe the purpose of the button.

WCAG Success Criterion: 2.1.1 Keyboard [Level A]

Severity Level: Critical

Slide: 10.2.1 Before you Start Customizing

Remarks and Explanations: Icons with triggers are not selectable so other layers and content cannot be reached by keyboard. This is a barrier for those who use keyboard-only or assistive tech including screen readers.

Recommendation: Make the “Layer 1” and “Layer 2” icons visible to accessibility tools with appropriate alt text, or refer to options above for shapes/icons/text boxes as buttons. Remove visual descriptions of buttons and only describe the action the button takes. Additional optional recommendation: Add hover states to mouse users know items are clickable.

WCAG Success Criterion: 2.1.1 Keyboard [Level A]

Severity Level: Critical

Slide: 10.7, 10.8, 10.9 KC Scenario 2 Q1, Q2, Q3

Remarks and Explanations: Answers are not selectable. Only those using a mouse are able to select tools. This is a barrier for those who use keyboard-only or assistive tech including screen readers.

Recommendation: Choose a recommended option above for creating the “buttons”, then make visible for accessibility tools. If using a group, text boxes and other elements should be invisible to accessibility tools and only the group should be visible to accessibility tools. The alt text would then need to be exactly the text of the answer option.

WCAG Success Criterion: 2.1.1 Keyboard [Level A]

Severity Level: Critical

Slide: 12.1 What is Alt Text?

Remarks and Explanations: “View in Grayscale” buttons are not selectable. This is a barrier for those who use keyboard-only or assistive tech including screen readers.

Recommendation: Mark each “button” group as “visible to accessibility tools”, or follow recommendations above for shapes/icons/text boxes as buttons.

WCAG Success Criterion: 2.4.3 Focus Order [Level A]

Severity Level: Critical

Slide: 12.13 How to Add Captions

Remarks and Explanations: The Focus Order is currently set for each step first, then after all steps the content that selecting each step opens. This is a barrier for screen reader users who are unable to access the content under the first two steps.

Recommendation: In the Focus Order, after Step 1 should be the Step 1 content, followed by Step 2 then the Step 2 content, followed by Step 3 then the Step 3 content.

WCAG Success Criterion: 1.2.1 Audio-only and Video-only (Prerecorded) [Level AA]

Severity Level: Critical

Slide: 12.14 Video-Before Presenting, 12.16 Video-While presenting

Remarks and Explanations: The video explainer does not have any audio or alternative. This is a barrier for users who cannot perceive video-only content. This includes users with vision impairments or trouble processing visual information.

Recommendation: Add a text transcript describing all visual information. An audio description could also be added. Ensure the transcript is screen reader accessible and easily to find on the slide.

WCAG Success Criterion: 2.1.1 Keyboard [Level A]

Severity Level: Critical

Slide: 12.18 3 Options to Add a Transcript

Remarks and Explanations: Buttons are not selectable which means text is not readable by screen reader. This is a barrier those who use a keyboard or other accessibility tool to navigate, including screen reader users who won't be able to select the buttons, and as a result won't be read the text on the buttons.

Recommendation: Choose option from recommendations above for shapes/icons/text boxes as buttons and make sure the trigger element is also visible to accessibility tools and has appropriate alternative text.

WCAG Success Criterion: 2.1.1 Keyboard [Level A]

Severity Level: Critical

Slide: 12.20 Knowledge Check 1/3

Remarks and Explanations: None of the answers are selectable by keyboard. This is a barrier for those who use keyboard-only or assistive tech including screen readers, as there is no way to complete the question and move on without selecting an answer.

Recommendation: Add triggers to answers (after choosing an option above for shapes/icons/text boxes as buttons).

WCAG Success Criterion: 2.1.1 Keyboard [Level A]

Severity Level: Critical

Slide: 12.20, 12.21, 12.22 Knowledge Checks

Remarks and Explanations: The “Marissa” image is not selectable. This is a barrier for those who use keyboard-only or assistive tech including screen readers.

Recommendation: Make the group visible to accessibility tools and create appropriate alt text to describe the purpose of the image, not the appearance. (Or choose an option above for shapes/icons/text boxes as buttons). Keep it consistent on all three slides.

Additional recommendation: On slide 12/19 when selected create alt text to describe what the icon is and how to use it on the next three slides, or make it not visible to accessibility tools. Remove continuous hover pulsing to make the image look selectable.

WCAG Success Criterion: 2.1.1 Keyboard [Level A]

Severity Level: Critical

Slide: 1.12 Quiz 3/7

Remarks and Explanations: Review, Insert, and Help boxes are not selectable. The number markers above are selectable, but do not serve as triggers. The boxes surrounding the text below each marker are not visible to accessibility tools, but have the trigger to access more content. This is a barrier for keyboard users and screen reader users who have no way to access key information to answer the questions.

Recommendation: Replace markers and boxes with larger selectable areas that are both visible to accessibility tools and the triggers to open more content. Make sure the alt text

matches the purpose of the “button”. If markers are left for users viewing the content, make them invisible to accessibility tools and include answer numbers and descriptions in the alt text for the selectable “buttons”.

WCAG Success Criterion: 2.1.2 No Keyboard Trap [Level A]

Severity Level: Critical

Slide: 1.12 Quiz 3/7

Remarks and Explanations: In the Review, Insert, and Help layers, there is no way to select the “Back” button. It appears visually on screen, but when selected with a keyboard, activate the “Submit” button before the user has been able to select their answer. There is no way to go “Back” without the use of a mouse.

Recommendation: For each of the 3 layers, select “Prevent user from clicking on other layers”. Additional recommendation: hide base layer when in the other 3 layers as the keyboard can still tab to “invisible” elements which can create a keyboard trap.

WCAG Success Criterion: 1.3.2 Meaningful Sequence [Level A]

Severity Level: Significant

Slide: 5. Types of Disability

Remarks and Explanations: The table is read out of order for screen reader users, and Storyline tables are not fully accessible due to the lack of semantic heading styles in tables. Once a screen reader has finished the main headings, going through the next row the user would have to remember what each heading was in order if they were to correctly group information while learning.

Recommendation: Place the “Cognitive” heading before “Permanent.” Provide a text alternative (possibly accessible lists) for the table.

WCAG Success Criterion: 2.4.3 Focus Order [Level A] & 4.1.2 Name, Role, Value [Level A]

Severity Level: Significant

Slide: 12.1 What is Alt Text?

Remarks and Explanations: On the base layer the Alt text button is not visible at the beginning of the slide but the focus indicator will tab to it. This means keyboard users will

now know what they are selecting when the focus indicator moves. On the “Alt text example” layer, the glossary and alt text buttons from the base layer are still selectable.

Recommendation: The “View an example of Alt text” button should be on screen at the beginning of the timeline, and needs appropriate alt text. On the “alt text example” layer, check “Prevent users from clicking on the other layers” or hide the base layer completely.

WCAG Success Criterion: 1.1.1 Non-text Content [Level A]

Severity Level: Significant

Slide: 12.7 Accessible Multimedia, 12.9 Captions, 12.10 Open versus Closed Captions

Remarks and Explanations: Many different visual elements that are grouped together each have individual alternative text without description of their relation. This is a barrier to screen reader users who will receive descriptions of individual images without any context for their function on these slides.

Recommendation: Group the relevant images together and provide one alt text description for the entire group in context. Keep the alt text consistent when using the same image group on multiple slides.

WCAG Success Criterion: 1.3.2 Meaningful Sequence [Level A]

Severity Level: Significant

Slide: 12.8 Accessible Multimedia and Types of Disabilities

Remarks and Explanations: In the third row, the bullet points come before the “Situational Disability” heading. This is a barrier for screen reader users, as a screen reader will read the bullet points directly after the Temporary Disability bullet points.

Recommendation: Place the “Situational Disability” heading before the bullet points associated in the Focus Order.

WCAG Success Criterion: 1.1.1 Non-text Content [Level A]

Severity Level: Significant

Slide: 1.11 Quiz 2/7

Remarks and Explanations: Alt text for speaker icons describes visually what the icons look like without indication of which answer version they are connected to. This is a barrier for screen readers users who won't have the context of knowing which audio example belongs with which answer.

Recommendation: Remove alt text that describes the visual look of the buttons and replace it with alt text to describe what they are going to be listening to/reading in the captions.

WCAG Success Criterion: 1.3.2 Meaningful Sequence [Level A]

Severity Level: Moderate

Slide: 3. Navigation

Remarks and Explanations: The "Focus Order" is set Glossary, Next Arrow, Zoom, Back Arrow. The next and back arrow button shapes trigger the slide but are invisible to accessibility tools. This is a barrier for people relying on screen readers navigating in the set order without access to the visual information.

Recommendation: Group the arrows in the focus order, and make sure the navigation buttons are visible to accessibility tools if intended for all to use. This is only a moderate severity because the navigation in the player is on and fully functional.

WCAG Success Criterion: 2.4.3 Focus Order [Level A]

Severity Level: Moderate

Slide: 9. Menu

Remarks and Explanations: Each of the three main menu items has a button to select the module that is set before the text displaying the time the module should take.

Recommendation: Place time before the button in Focus Order. They can visually remain the same, but a screen reader user should have information about the length of the training before selecting the button.

WCAG Success Criterion: 2.1.1 Keyboard [Level A]

Severity Level: Moderate

Slide: 1.10 Quiz 1/7

Remarks and Explanations: Question number and response group are all selectable. This is a barrier for screen reader users who will not have the context of what they are selecting as an answer.

Recommendation: There should only be one selectable item per answer with text that is visible to accessibility tools. Choose option from recommendations above for shapes/icons/text boxes as buttons. Keep consistent on all quiz questions and knowledge checks when possible.

WCAG Success Criterion: 2.1.1 Keyboard [Level A]

Severity Level: Moderate

Slide: 1.12 Quiz 3/7

Remarks and Explanations: Response group and text box for answer 1 are both selectable.

Recommendation: Change to match other two answers. (Choose option from recommendation above for shapes/icons/text boxes as buttons for all quiz questions/knowledge checks).

WCAG Success Criterion: 2.1.1 Keyboard [Level A]

Severity Level: Moderate

Slide: QUIZ 4/7, 5/7, 6/7

Remarks and Explanations: Response group and text box are both selectable.

Recommendation: Choose option from recommendation above for shapes/icons/text boxes as buttons for all quiz questions/knowledge checks.

WCAG Success Criterion: 2.2.2 Pause, Stop, Hide [Level A]

Severity Level: Moderate

Slide: All slides with markers

Remarks and Explanations: The markers pulse automatically and last for the duration of the timeline, which is more than 5 seconds to navigate all of the information on the slide.

This can be a barrier for those who have vestibular orders or find the continuous movement to be distracting.

Recommendation: In the “Marker Tools, Format” tab, in the “Marker Options” remove the Pulse animation. You can add an initial pulse animation by going to the “Animations” tab, “Add Emphasis Animation”, then “Pulse” and choose a duration of 5 seconds or less.

General Usability and QA Findings

Slide: 12.17 Transcripts

Remarks and Explanations: The button leads to an error code: This XML file does not appear to have any style information associated with it.

In the layer triggered by the button “View an example of a Transcript”, the layer trigger reads: Open C:\\Users\\shena\\Downloads\\Example Trascript.pdf When the timeline starts on this layer.

Recommendation: Set the button trigger to open URL/File if the PDF is fully accessible, or convert the PDF into slide content for this layer.

Slide: 7. Inaccessible Slides vs. Accessible Slides

Recommendation: In the low color contrast pop-up, PowerPoints should be PowerPoint’s (with the apostrophe to show possession/ownership)

Slide: 4. Why Accessible PPT’s Matter

Recommendation: Change “PPT’s” to “PPTs” without the apostrophe, since in this case PPTs is plural and not possessive.

Slide: 12.21 Knowledge Check 2/3, Quiz 4/7, 5/7, 6/7, 7/7

Remarks and Explanations: Only one answer can be selected at a time, but the instructions say “Select all that apply”. There is no way to get a correct answer.

Recommendation: Instead of “Multiple Choice” this Graded Question should be a “Multiple Response” (KC 2/3). Be sure to select all correct responses when creating the quiz question. Also check that groups don’t override settings in the quiz responses (Quiz).