WCAG 2.1 A and AA Requirements

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| **Name of Product** | **HESI Legacy** |
| **Date Last Updated** | **March 4, 2021** |
| Completed by | Jay Nemchik (Digital Accessibility Team, Dayton) |
| **Document Description** | This document rates HESI Legacy according to the W3C WCAG 2.1 A and AA requirements.  |
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| **Testing Tools and Methods** | **Hands-on keyboard operationFirebug/Code inspectionFirefox Web Developer Toolbar (removing style sheets)JAWS 18 on Mozilla Firefox 63 and MS IE 11 on Windows 10NVDA screen reader v2020Wave Extension****Color Contrast AnalyzerW3C WAI Pages**Elsevier Accessibility Checklist: <http://romeo.elsevier.com/accessibility_checklist/> |
| **Document Sections** | The review document below includes all WCAG 2.1 A and AA checkpoints and is organized into 6 logical sections: * Visuals
* Keyboard
* Headings and Structure
* Labeling
* Multimedia
* Usability
 |
| **Pages Covered** | Homepage, Login, Faculty Dashboard, Administer Exams, Exam Player, Exam Content |
| **Note from W3C on Conformance** | <https://www.w3.org/TR/UNDERSTANDING-WCAG20/conformance.html>**“If there is no content to which a success criterion applies, the success criterion is satisfied.” This VPAT shows such criterion as: "Supports (N/A)"** |
| **Notes/Terminology** | **“AT” stands for Assistive Technology such as screen readers, voice input, etc.** |

| **WCAG 2.1 Success Criterion**  | **Level** | **Evaluation** |
| --- | --- | --- |
| 1.1.1: Non-text Content | A | Partially supports |
| 1.2.1: Audio-only and Video-only (Prerecorded) | A | Does not support |
| 1.2.2: Captions (Prerecorded) | A | Does not support |
| 1.2.3: Audio Description or Full Text Alternative | A | Does not support |
| 1.2.4: Captions (Live) | AA | Supports (N/A) |
| 1.2.5: Audio Description | AA | Does not support |
| 1.3.1: Info and Relationships | A | Does not support |
| 1.3.2: Meaningful Sequence | A | Partially supports |
| 1.3.3: Sensory Characteristics | A | Partially supports |
| 1.3.4 Orientation (2.1) | AA | Supports |
| 1.3.5 Identify Input Purpose (2.1) | AA | Does not support |
| 1.4.1: Use of Color | A | Partially supports |
| 1.4.2: Audio Control | A | Supports |
| 1.4.3: Contrast (Minimum) | AA | Partially supports |
| 1.4.4: Resize text | AA | Partially supports |
| 1.4.5: Images of Text | AA | Partially supports |
| 1.4.10 Reflow (2.1) | AA | Partially supports |
| 1.4.11 Non-Text Contrast (2.1) | AA | Partially supports |
| 1.4.12 Text Spacing (2.1) | AA | Partially supports |
| 1.4.13 Content on Hover or Focus (2.1) | AA | Supports (N/A) |
| 2.1.1: Keyboard | A | Partially supports |
| 2.1.2: No Keyboard Trap | A | Supports |
| 2.1.4 Character Key Shortcuts (2.1) | A | Supports (N/A) |
| 2.2.1: Timing Adjustable | A | Does not support |
| 2.2.2: Pause, Stop, Hide | A | Supports (N/A) |
| 2.3.1: Three Flashes or Below Threshold | A | Supports (N/A) |
| 2.4.1: Bypass Blocks | A | Does not support |
| 2.4.2: Page Titled | A | Partially supports |
| 2.4.3: Focus Order | A | Partially supports |
| 2.4.4: Link Purpose (In Context) | A | Partially supports |
| 2.4.5: Multiple Ways | AA | Supports |
| 2.4.6: Headings and Labels | AA | Supports |
| 2.4.7: Focus Visible | AA | Does not support |
| 2.5.1 Pointer Gestures (2.1) | A | Supports (N/A) |
| 2.5.2 Pointer Cancellation (2.1) | A | Supports (N/A) |
| 2.5.3 Label in Name (2.1) | A | Partially supports |
| 2.5.4 Motion Actuation (2.1) | A | Supports (N/A) |
| 3.1.1: Language of Page | A | Does not support |
| 3.1.2: Language of Parts | AA | Supports (N/A) |
| 3.2.1: On Focus | A | Supports |
| 3.2.2: On Input | A | Supports |
| 3.2.3: Consistent Navigation | AA | Supports |
| 3.2.4: Consistent Identification | AA | Supports |
| 3.3.1: Error Identification | A | Partially supports |
| 3.3.2: Labels or Instructions | A | Partially supports |
| 3.3.3: Error Suggestion | AA | Supports |
| 3.3.4: Error Prevention (Legal, Financial, Data) | AA | Supports (N/A) |
| 4.1.1: Parsing | A | Supports |
| 4.1.2: Name, Role, Value | A | Partially supports |
| 4.1.3 Status Messages (2.1) | AA | Supports (N/A) |

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| **Visuals** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| [1.1.1: Non-Text Content](http://www.w3.org/TR/WCAG20/#text-equiv-all) (A)Provide text alternatives for non-text content (e.g. images) | Partially supports | Some images and icons include text equivalents.**Exceptions:**Homepage: The Logos in the header and footer are both missing alt text. The Student Login clipboard icon needs alt="". Take My Exam and Faculty Access are both images without proper alternative text. Student Login and Faculty Login are background images of text without text equivalents.Login: The logos in the header and footer are both missing alt text.Faculty Dashboard: The logo in the footer does not have alt text. There is a small image in the banner bar that should have alt="". The "Go Now" submit button should have alternative text. The Announcements text is a background image without a text equivalent.Administer Exams: The logo in the footer does not have alt text. There is a small image in the banner bar that should have alt="". Reschedule Exams, Administer Exams, and View Closed Exams are all images of text without alt text. The calendar icons do not have alt text. The print button does not have alt text. The information icons are interactive, but have null alt text.Exam Content: The following calculator buttons need plain text labelling for them to be properly read out by assistive technology ( \* . - / ). There are question types that rely on the information provided in images, and these images do not have sufficient alternative text for users to be able to answer the questions. Audio player buttons are sometimes images with no alt text. |
| [1.3.3: Sensory Characteristics](http://www.w3.org/TR/WCAG20/#content-structure-separation-understanding) (A)Do not rely on sensory characteristics of components such as shape, size, visual location, orientation, or sound | Partially supports | Most content does not rely on sensory characteristics.**Exceptions:**Exam Content: Image hotspot questions ask the user to pick a specific spot on an image; this requires use of visual location, and no alt text or image regions are applied to the image. The instructions for adjusting volume refer to the "lower right-hand corner of the player", referring to spatial location. The volume button is not labelled, so the instructions are not supplementary. |
| [1.4.1: Use of Color](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-without-color) (A)Color is not used as the only visual means of conveying info | Partially supports | Color is not used as the only means of conveying information for most content.**Exceptions:**The Elsevier link used in the footer is non-underlined text and have a color that is the same as the surrounding Copyright text. This link text requires a contrast of at least 3:1 between it and the adjacent Copyright text. |
| [1.4.3: Color Contrast (Minimum)](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-contrast) (AA)Text has enough contrast with the background (4.5:1 for small text and 3:1 for large text) | Partially supports | Most text has enough contrast with its corresponding background. **Exceptions:**Homepage: The Take My Exam and Faculty Access button texts do not have enough contrast.Faculty Dashboard: The bright blue link text on the page does not have enough contrast.Administer Exams: The inactive tab at the top (e.g. Search Exams) does not have enough contrast. The active button (e.g. Reschedule Exams) does not have enough contrast. The "Close" text in the calendar widget does not have enough contrast. |
| [1.4.4: Resize Text](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-scale) (AA)Text can be enlarged up to 200% without loss of functionality. | Partially supports | Text can be enlarged to 200% and content remains functional.**Exceptions**:Exam Player: Text size cannot be adjusted in the secure browser. |
| [1.4.5: Images of Text](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-text-presentation) (AA)Text is used rather than images of text, except where the presentation of text is essential, such as logos | Partially supports | Almost no images of text are used other than for Logos or essential presentation.**Exceptions:**Homepage: Student Login and Faculty Login are background images of text. Take My Exam and Faculty Access are buttons using images of text.Faculty Dashboard: The "Go Now" button is an image of text. Announcements is a background image of text. The Close button for the HESI ProCalc modal is an image of text.Administer Exams: Reschedule Exams, Administer Exams, and View Closed Exams are all images of text. The Print button is an image of text. The Close button for the information dialogs is an image of text. |
| [1.4.10 Reflow](https://www.w3.org/TR/WCAG21/#reflow)(AA)Content can be presented without loss of information or functionality, and without requiring scrolling in two dimensions for:Vertical scrolling content at a width equivalent to 320 CSS pixels;Horizontal scrolling content at a height equivalent to 256 CSS pixels. | Does not support | No responsive view is available, causing scrolling in two directions on all pages.Exam Player: The secure browser does not allow for text or browser window resizing, thereby causing the checkpoint to fail. |
| [1.4.11 Non-Text Contrast (AA](https://www.w3.org/TR/WCAG21/#non-text-contrast))User interact components and graphical objects have a contrast ratio of at least 3:1 against adjacent color(s). | Partially supports | Most non-text UI components and graphical objects have at least a 3:1 contrast ratio.**Exceptions:**Exam Content: The "Play Audio" button does not have enough contrast with 2.04:1 at its darkest color. |
| [1.4.12 Text Spacing (AA)](https://www.w3.org/TR/WCAG21/#text-spacing)In content implemented using markup languages that support the following text style properties, no loss of content or functionality occurs by setting all the following and by changing no other style property:Line height (line spacing) to at least 1.5 times the font size;Spacing following paragraphs to at least 2 times the font size;Letter spacing (tracking) to at least 0.12 times the font size;Word spacing to at least 0.16 times the font size. | Partially supports | The site allows users to adjust the text spacing without causing loss of content or functionality.**Exceptions:**The secure browser does not allow for any CSS manipulation, so the text spacing of the exam player cannot be adjusted. |
| [1.4.13 Content on Hover or Focus (AA)](https://www.w3.org/TR/WCAG21/#content-on-hover-or-focus)Where receiving and then removing pointer hover or keyboard focus triggers additional content to become visible and then hidden, the following are true:* Dismissable
* Hoverable
* Persistent
 | Supports | There is no content that appears on hover or focus. |
| [2.3.1: Three Flashes or Below Threshold](http://www.w3.org/TR/WCAG20/#seizure-does-not-violate) (A)No more than three flashes in a 1-second period, or the flashes are below the defined thresholds | Supports (N/A) | No flashing content exists. |
| **Keyboard** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| [1.3.2: Meaningful Sequence](http://www.w3.org/TR/WCAG20/#content-structure-separation-sequence) (A)The correct reading sequence can be programmatically determined | Partially supports | The correct reading sequence is logical with the DOM order matching the visual order.  **Exceptions:** Administer Exams: The calendar widget needs to follow the calendar icon directly in the DOM.Exam Content: There is a bunch of visually hidden content repeated in the middle of the page which is very confusing for screen reader users. |
| [2.1.1: Keyboard](http://www.w3.org/TR/WCAG20/#keyboard-operation-keyboard-operable) (A)All functionality is available from a keyboard, except for tasks such as drawing | Partially supports | Most content is keyboard operable.**Exceptions**:Faculty Dashboard: The HESI ProCalc element cannot be reached by keyboard.Administer Exams: The information icons cannot be reached or activated by keyboard.Exam Player: Users with screen readers can be blocked entirely from entering the page.Exam Content: The sequencing question type cannot be completed with keyboard alone (users cannot move the sequencing tiles around with the keyboard). The Image hotspot question type cannot be completed with keyboard (users cannot select a spot on the image, and therefore cannot submit the question at all). Users cannot navigate the radio button or checkbox inputs with the keyboard (Due to visibility hidden). The audio/video player has controls that cannot be reached by keyboard. |
| [2.1.2: No Keyboard Trap](http://www.w3.org/TR/WCAG20/#keyboard-operation-trapping) (A)The user can use the keyboard to move through page elements and is not trapped on a particular element | Supports | No keyboard traps exist on any page.  |
| [2.1.4 Character Key Shortcuts (A)](https://www.w3.org/TR/WCAG21/#character-key-shortcuts)If a keyboard shortcut is implemented in content using only letter (including upper- and lower-case letters), punctuation, number, or symbol characters, then at least one of the following is true:* Turn off
* Remap
* Active only on focus
 | Supports (N/A) | The site does not use any character key shortcuts. |
| [2.4.3: Focus Order](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-focus-order) (A)Users can tab through the elements of a page in a logical order | Partially supports | Tab order is logical on the site for the most part.**Exceptions**:Faculty Dashboard: The HESI ProCalc modal does not manage or trap focus properly.Administer Exams: The information modal dialogs do not manage or trap focus properly.Exam Content: The calculator content is not adjacent to the actual show/hide button in the DOM. |
| [2.4.7: Focus Visible](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-focus-visible) (AA)The page element with the current keyboard focus has a visible focus indicator | Does not support | Most UI elements are missing a visible focus. A few elements use the browser default focus.**Exceptions:**Login: All elements on the page except for the text inputs do not have a visible focus.Faculty Dashboard: All elements on the page do not have a visible focus.Administer Exams: All elements on the page do not have a visible focus other than the input elements (text inputs, selects). |
| [3.2.1: On Focus](http://www.w3.org/TR/WCAG20/#consistent-behavior-receive-focus) (A)When a UI component receives focus, this does not trigger unexpected actions. | Supports | Focusable elements do not cause unexpected actions when receiving focus. |
| **Headers and Structure** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| [1.3.1: Information and Relationships](http://www.w3.org/TR/WCAG20/#content-structure-separation-programmatic) (A)Info, structure, and relationships can be programmatically determined | Does not support | Table are used to structure pages. Almost no headings are used. Lists and landmarks are not used.**Exceptions:**Homepage: The page should not use tables for page structure. The page has no headings.Login: The page should not use tables for page structure. The page needs an h1.Faculty Dashboard: The page should not use tables for page structure. There are no headings on the page.Administer Exams: The page should not use tables for page structure. There are no headings on the page.Exam Content: There is no heading structure at all. E.g. “Question 1 of 9” should be a H1 heading. Question text should be a heading. Tables are sometimes used in the exams and are not marked up as tables at all. |
| [2.4.1: Bypass Blocks](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-skip) (A)Users can bypass repeated blocks of content. | Does not support | Headings do not exist.There is no skip to main content link on most pages.The skip to main content link on Administer Exams needs to be the first interactive element on the page and should become visible on focus. |
| [2.4.6: Headings and Labels](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-descriptive) (AA) Headings and labels are clear and consistent. | Supports | Headings and labels used are clear and descriptive.  |
| [3.1.1: Language of Page](http://www.w3.org/TR/WCAG20/#meaning-doc-lang-id) (A)The language of the page is specified | Does not support | The language is not defined on any page. |
| [3.1.2: Language of Parts](http://www.w3.org/TR/WCAG20/#meaning-other-lang-id) (AA)Specify the language of text passages that are in a different language than the default language of the page. | Supports (N/A) | None of the site-wide UI or functionality uses a different language than the default. |
| [4.1.1: Parsing](http://www.w3.org/TR/WCAG20/#ensure-compat-parses) (A)Use valid, error-free HTML | Supports | HTML and CSS passes concerning these 4 specific criteria: (i) elements have complete start and end tags,(ii) elements are nested according to their specifications(iii) elements do not contain duplicate attributes(iv) any IDs are unique, except where the specifications allow these features. |
| **Labeling** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| [1.3.5 Identify Input Purpose (AA)](https://www.w3.org/TR/WCAG21/#identify-input-purpose)The purpose of each input field collecting information about the user can be programmatically determined when:The input field serves a purpose identified in the Input Purposes for User Interface Components section; and the content is implemented using technologies with support for identifying the expected meaning for form input data. | Does not support | The login pages for HESI do not have autocomplete attributes. |
| [2.4.2: Page Titled](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-title) (A)The page has a title describing its topic or purpose | Partially supports | Page titles change dynamically and are usually descriptive.**Exceptions:**Administer Exams: The page's title does not change within the Faculty Access pages. |
| [2.4.4: Link Purpose (In Context)](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-refs) (A)The purpose of each link can be determined from the link text or surrounding context. | Partially supports | Most links used have an identifiable purpose from the link text or surrounding context. **Exceptions:**Homepage: Take My Exam and Faculty Access links do not have any link text. |
| [2.5.3 Label in Name](https://www.w3.org/TR/WCAG21/#label-in-name) (A)For user interface components with labels that include text or images of text, the name contains the text that is presented visually. | Partially supports | User interface components that have visible text do not often contain that text within the accessible name.**Exceptions:**Homepage: Take My Exam and Faculty Access do not have the visible text in the accessible name.Faculty Dashboard: The Go Now button does not have its visible text in the accessible name.Administer Exams: The Reschedule Exams, Administer Exams, View Closed Exams, and Print buttons do not have their visible text in the accessible name. |
| [3.2.4: Consistent Identification](http://www.w3.org/TR/WCAG20/#consistent-behavior-consistent-functionality) (AA)UI components used across the web site are identified consistently on every page. | Supports | UI components are consistent across the site. |
| [3.3.1: Error Identification](http://www.w3.org/TR/WCAG20/#minimize-error-identified) (A)Input errors are clearly marked and described to the user. | Partially supports | Errors are shown visibly, but are mostly not connected to their associated inputs programmatically.**Exceptions:** Login: Login errors are visibly marked, but not programmatically connected to any inputs. The errors are not announced to AT.Faculty Dashboard: A missing access code submission creates an error message that is not programmatically connected to the input. The error is not announced to AT.Exam Content: For the fill-in-the-blank question, either provide error text next to the input that describes if a user has entered invalid characters or ensure that instructions are given programmatically that let users know that only numeric characters are allowed. |
| [3.3.2: Labels and Instructions](http://www.w3.org/TR/WCAG20/#minimize-error-cues) (A)Items requiring user input are clearly labeled or have clear instructions. | Partially supports | Most input areas have clear labels which are programmatically assigned. **Exceptions:** Login: The username and password fields are not labelled.Faculty Dashboard: The Access Code input field does not have a label. The select input in the HESI ProCalc modal is not labelled.Administer Exams: Nearly all input elements on the page are not labelled (checkboxes are labelled).Exam Content: The Fill-in-the-Blank input does not have any label text (use the question text). Radio and checkboxes are not labelled. |
| [3.3.3: Error Suggestion](http://www.w3.org/TR/WCAG20/#minimize-error-suggestions) (AA)When the user makes an input error, give suggestions for valid input. | Supports | The error text given is sufficient for error suggestions.  |
| [4.1.2: Name, Role, Value](http://www.w3.org/TR/WCAG20/#ensure-compat-rsv) (A)For all UI components, the name, value, and role can be programmatically determined. | Partially supports | Most UI components communicate their state programmatically. **Exceptions:**Faculty Dashboard: The HESI ProCalc modal needs role="dialog", aria-modal="true", and a label. The Go Now button needs a proper label.Administer Exams: The information modal dialog needs role="dialog", aria-modal="true", and a label. The calendar links should be buttons and need proper labels. The month and year switches in the calendar widget should be buttons and need proper labels.Exam Content: Consider following the aria tablist ruleset for tabs. <http://www.w3.org/TR/wai-aria-practices/examples/tabs/tabs.html>. Apply a role="region" to the containing element for the calculator and give it an aria-label="Calculator". |
| [4.1.3 Status Messages](https://www.w3.org/TR/WCAG21/#status-messages) (AA)In content implemented using markup languages, status messages can be programmatically determined through role or properties such that they can be presented to the user by assistive technologies without receiving focus. | Supports (N/A) | There are no status messages on the site of the kind described by this criterion. |
| **Multimedia** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| [1.2.1: Audio-only or Video-only (Prerecorded)](http://www.w3.org/TR/WCAG20/#media-equiv-av-only-alt) (A)Provide alternatives for pre-recorded audio-only or video-only content. | Does not support | There is pre-recorded audio-only content in the exams that does not have any alternatives. |
| [1.2.2: Captions (Prerecorded)](http://www.w3.org/TR/WCAG20/#media-equiv-captions) (A)Provide captions for pre-recorded audio | Does not support | There is pre-recorded audio in the exams that do not have any captions. |
| [1.2.3: Audio Description or Media Alternative (Prerecorded)](http://www.w3.org/TR/WCAG20/#media-equiv-audio-desc) (A)Provide alternatives for pre-recorded synchronized audio/video | Does not support | There is pre-recorded synchronized media in the exams that do not have any provided alternatives.  |
| [1.2.4: Captions (Live)](http://www.w3.org/TR/WCAG20/#media-equiv-real-time-captions) (AA)Provide captions for live audio in synchronized audio/video. | Supports (N/A) | There is no live audio in synchronized audio/video. |
| [1.2.5: Audio Description (Prerecorded)](http://www.w3.org/TR/WCAG20/#media-equiv-audio-desc-only) (AA)Provide an audio description of pre-recorded video. | Does not support | There are pre-recorded videos in the exam that are not given an audio description. |
| [1.4.2: Audio Control](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-dis-audio) (A)Audio can be paused and stopped, or the audio volume can be changed. | Supports | There is pre-recorded audio in the exams, and the audio can be paused and stopped, as well as muted. There is no audio that plays automatically on the site. |
| [2.2.2: Pause, Stop, Hide](http://www.w3.org/TR/WCAG20/#time-limits-pause) (A)Users can stop, pause, or hide moving, blinking, scrolling, or auto-updating information. | Supports (N/A) | There is no moving, blinking, scrolling, or auto-updating information. |
| **Usability** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| [2.2.1: Timing Adjustable](http://www.w3.org/TR/WCAG20/#time-limits-required-behaviors) (A)Users are warned of time limits shorter than 20 hours and time limits can be turned off or extended | Does not support | There is a session time out for instructors which are shorter than 20 hours, but no notification or option to extend is given.There are time limits in the exam, but they are necessary for the exam itself and warnings are given beforehand. |
| [2.4.5: Multiple Ways](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-mult-loc) (AA)More than one way is available to navigate to other web pages. | Supports | Users can reach all pages in the system using the global navigation.Content pages can be reached through the global nav or homepage. |
| [3.2.2: On Input](http://www.w3.org/TR/WCAG20/#consistent-behavior-unpredictable-change) (A) Changing the setting of a checkbox, radio button, or other UI component does not trigger unexpected changes in context. | Supports | User inputs do not cause unexpected actions for most content. |
| [3.2.3: Consistent Navigation](http://www.w3.org/TR/WCAG20/#consistent-behavior-consistent-locations) (AA)Navigation menus are in the same location and order on every web page. | Supports | Navigation menus are consistently in the same place and in same order. |
| [3.3.4: Error Prevention (Legal, Financial, Data)](http://www.w3.org/TR/WCAG20/#minimize-error-reversible) (AA)For web pages with legal or financial commitments, input can be reviewed and corrected before final submission, and submissions can be reverted. | Supports (N/A) | There are no submissions which require legal or financial commitments.  |
| **Mobile User Experience** |
| **WCAG 2.1****Checkpoint** | **Supporting Features** | **Remarks** |
| [1.3.4 Orientation](https://www.w3.org/TR/WCAG21/#orientation)(AA) Content does not restrict its view and operation to a single display orientation, such as portrait or landscape, unless a specific display orientation is essential. | Supports | HESI does not restrict its view to a single orientation. |
| [2.5.1 Pointer Gestures](https://www.w3.org/TR/WCAG21/#pointer-gestures) (A) All functionality that uses multipoint or path-based gestures for operation can be operated with a single pointer without a path-based gesture, unless a multipoint or path-based gesture is essential. | Supports (N/A) | HESI does not use any multipoint or path-based gestures. |
| [2.5.2 Pointer Cancellation (A)](https://www.w3.org/TR/WCAG21/#pointer-cancellation)For functionality that can be operated using a single pointer, at least one of the following is true:* No Down-Event
* Abort or Undo
* Up Reversal
* Essential
 | Supports | All interactive content functions through the Up-Event, allowing users to potentially move their pointer off the component to cancel. |
| [2.5.4 Motion Actuation (A)](https://www.w3.org/TR/WCAG21/#motion-actuation)Functionality that can be operated by device motion or user motion can also be operated by user interface components and responding to the motion can be disabled to prevent accidental actuation, except when:* Supported Interface
* Essential
 | Supports (N/A) | There is no content on HESI that utilizes device or user motion. |