Voluntary Product Accessibility Template® (VPAT®) 2.5

WCAG Edition
| Version 2.5 | Report Date: 2026-07-31

Name of Product/Version

Challenges for Electronics consisting of ten applications for electricity and electronics training - Version 5.1

Report Date

2026-07-31

Product Description

Challenges for Electronics consisting of ten applications for electricity and electronics training. Each application consists of several interactivities designed to help trainees learn both circuit analysis and troubleshooting. The materials attempt to encourage learning by presenting concepts in bite sized modules that are automatically graded and corrected upon completion. Troubleshooting activities present realistic circuit images that students can interact analyze and suggest a fix. Each use of an activity is created from random component values on each use. Additional information at htttps://etcai.com

Company/Vendor

ETCAI Products

Contact Information

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Notes

Challenges for Electronics is a legacy training application set almost thirty years old. The programs predate most training application standards. The materials have been updated and expanded many times to stay useable on Windows workstations and laptops.

Evaluation Methods Used

Testing methods include manual execution by several students, teachers, and evaluators.
Evaluated by: Charlie Ormon (ETCAI Products)

Applicable Standards/Guidelines

This report covers the degree of conformance for the following accessibility standard/guidelines:

Conformance Level Selected: WCAG 2.2 Level AA

Terms

The terms used in the Conformance Level column are defined as follows:

Supports: The functionality of the product has at least one method that meets the criterion without known defects.
Partially Supports: Some functionality of the product does not meet the criteria.
Does Not Support: The majority of product functionality does not meet the criteria.
Not Applicable: The criterion is not relevant to the product.
Not Evaluated: The product has not been evaluated against the criterion.

WCAG 2.2 Report

Principle 1: Perceivable

SC	Success Criterion	Conformance	Remarks
1.1.1	**Non-text Content** (Level A)	Supports	Supports where non-text content could be confused as in color codes for example.
1.2.1	**Audio-only and Video-only (Prerecorded)** (Level A)	Not Applicable	Sound is not used.
1.2.2	**Captions (Prerecorded)** (Level A)	Not Applicable	Sound is not used.
1.2.3	**Audio Description or Media Alternative (Prerecorded)** (Level A)	Not Applicable	Sound is not used.
1.2.4	**Captions (Live)** (Level AA)	Not Applicable	Sound is not used.
1.2.5	**Audio Description (Prerecorded)** (Level AA)	Not Applicable	Video in used.
1.3.1	**Info and Relationships** (Level A)	Supports	All text and images are fully rendered on user screens.
1.3.2	**Meaningful Sequence** (Level A)	Supports	All training modules are properly sequenced as standard practice in teaching electricity and electronics.
1.3.3	**Sensory Characteristics** (Level A)	Supports	Text descriptions of colors and significant shapes are given except where shape identification is the learning object. Colors where significant are identified in text.
1.3.4	**Orientation** (Level AA) *[WCAG 2.1]*	Supports	The display orientation is determined by the display device.
1.3.5	**Identify Input Purpose** (Level AA) *[WCAG 2.1]*	Does Not Support	Personal information is not collected other than a name for the score document.
1.4.1	**Use of Color** (Level A)	Supports	Color where significant is identified by text either directly or as a user option.
1.4.2	**Audio Control** (Level A)	Supports	Sounds are not used.
1.4.3	**Contrast (Minimum)** (Level AA)	Not Evaluated	Contrast of text and images has not been numerically measured.
1.4.4	**Resize Text** (Level AA)	Does Not Support	The applications do not include user resizing options. Resizing can be accomplished by resizing the screen using OS controls.
1.4.5	**Images of Text** (Level AA)	Partially Supports	Some headings and other nonessential text are in the form of images.
1.4.10	**Reflow** (Level AA) *[WCAG 2.1]*	Supports	Only single dimensional scrolling is ever required.
1.4.11	**Non-text Contrast** (Level AA) *[WCAG 2.1]*	Not Evaluated	No numeric contrast ratios have measured. Designers made every effort to keep visuals clear.
1.4.12	**Text Spacing** (Level AA) *[WCAG 2.1]*	Supports	These standards were kept across all activities.

1.4.13	**Content on Hover or Focus** (Level AA) *[WCAG 2.1]*	Not Applicable	Not a known issue.

Principle 2: Operable

SC	Success Criterion	Conformance	Remarks
2.1.1	**Keyboard** (Level A)	Partially Supports	Several activities can be used entirely with keyboard input. Troubleshooting activities require a pointing device to move meter leads and select connection positions.
2.1.2	**No Keyboard Trap** (Level A)	Supports	No such traps exist.
2.1.4	**Character Key Shortcuts** (Level A) *[WCAG 2.1]*	Supports	The applications do not control shortcut keys. Windows OS standard key functions are operable in the applications.
2.2.1	**Timing Adjustable** (Level A)	Supports	The applications do not set time limits. Time on task is measured and recorded on score documents.
2.2.2	**Pause, Stop, Hide** (Level A)	Supports	Such events are not used in any applications.
2.3.1	**Three Flashes or Below Threshold** (Level A)	Supports	Flashes not used.
2.4.1	**Bypass Blocks** (Level A)	Not Applicable	-
2.4.2	**Page Titled** (Level A)	Supports	These applications are not web pages; each page is properly titled.
2.4.3	**Focus Order** (Level A)	Partially Supports	Many but not all pages allow tabbing through page items in a logical way.
2.4.4	**Link Purpose (In Context)** (Level A)	Supports	All links through the applications are identified by text.
2.4.5	**Multiple Ways** (Level AA)	Supports	All page paths are a step in the process.
2.4.6	**Headings and Labels** (Level AA)	Supports	-
2.4.7	**Focus Visible** (Level AA)	Supports	Focus is obvious by screen display.
2.4.11	**Focus Not Obscured (Minimum)** (Level AA) *[WCAG 2.2]*	Supports	-
2.5.1	**Pointer Gestures** (Level A) *[WCAG 2.1]*	Supports	-
2.5.2	**Pointer Cancellation** (Level A) *[WCAG 2.1]*	Supports	This is the default operating method.
2.5.3	**Label in Name** (Level A) *[WCAG 2.1]*	Supports	This is the default operating method.
2.5.4	**Motion Actuation** (Level A) *[WCAG 2.1]*	Supports	No motion actuation is used.
2.5.7	**Dragging Movements** (Level AA) *[WCAG 2.2]*	Supports	As described.
2.5.8	**Target Size (Minimum)** (Level AA) *[WCAG 2.2]*	Not Evaluated	Various sized targets are used in the hundreds of pages of these apps. No specific measurement is available.

Principle 3: Understandable

SC	Success Criterion	Conformance	Remarks
3.1.1	**Language of Page** (Level A)	Not Applicable	The Windows executable code does not have a human equivalent except in the original source code.
3.1.2	**Language of Parts** (Level AA)	Not Evaluated	-
3.2.1	**On Focus** (Level A)	Supports	-
3.2.2	**On Input** (Level A)	Supports	-
3.2.3	**Consistent Navigation** (Level AA)	Supports	Navigational mechanisms are consistent in all activities.
3.2.4	**Consistent Identification** (Level AA)	Supports	-
3.2.6	**Consistent Help** (Level A) *[WCAG 2.2]*	Partially Supports	Help content is consistently presented where appropriate. Help format varies depending on usefulness to users.
3.3.1	**Error Identification** (Level A)	Supports	-
3.3.2	**Labels or Instructions** (Level A)	Supports	-
3.3.3	**Error Suggestion** (Level AA)	Supports	-
3.3.4	**Error Prevention (Legal, Financial, Data)** (Level AA)	Not Applicable	-
3.3.7	**Redundant Entry** (Level A) *[WCAG 2.2]*	Not Applicable	-
3.3.8	**Accessible Authentication (Minimum)** (Level AA) *[WCAG 2.2]*	Not Applicable	-

Principle 4: Robust

SC	Success Criterion	Conformance	Remarks
4.1.1	**Parsing** (Level A)	Not Applicable	-
4.1.2	**Name, Role, Value** (Level A)	Not Applicable	-
4.1.3	**Status Messages** (Level AA) *[WCAG 2.1]*	Not Evaluated	-

Summary

Total Criteria Evaluated: 56

Conformance Summary:

Supports: 32
Partially Supports: 4
Does Not Support: 2
Not Applicable: 13
Not Evaluated: 5

Legal Disclaimer

Report Generated: 7/31/2026 via Developer Playground VPAT Generator

This Accessibility Conformance Report (ACR) was created using the VPAT® 2.5 template format. The information contained in this report is provided by ETCAI Products and represents their evaluation of product accessibility conformance.

Note:

• VPAT® is a registered trademark of the Information Technology Industry Council (ITI).
• This report follows the VPAT® 2.5 WCAG Edition format as specified by ITI.
• The evaluations and remarks contained in this report are based on the evaluation methods described above.
• This report is based on WCAG 2.2 Level AA success criteria as defined by the W3C Web Accessibility Initiative (WAI).