



Developers of the QI Macros Lean Six Sigma Software and Lean Six Sigma Demystified

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Product: QI Macros

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Note: QI Macros relies on Microsoft Excel for accessibility.
View Microsoft's current VPATs for Excel [here](#).

Section 508 Compliance Voluntary Product Accessibility Template Summary Table

Criteria	Supporting Feature
<u>Section 1194.21 Software Applications and Operating Systems</u>	Generally Supported
<u>Section 1194.22 Web-based internet information and Applications</u>	Not Applicable
<u>Section 1194.23 Telecommunications Products</u>	Not Applicable
<u>Section 1194.24 Video and Multi-media Products</u>	Supported
<u>Section 1194.25 Self-Contained, Closed Products</u>	Not Applicable
<u>Section 1194.26 Desktop and Portable Computers</u>	Not Applicable
<u>Section 1194.31 Functional Performance Criteria</u>	Supported
<u>Section 1194.41 Information, Documentation and Support</u>	Supported

Section 1194.21 Software Applications and Operating Systems

Criteria	Supporting Features	Remarks and explanations
Section 1194.21 Software Applications and Operating Systems.	<p>Supported:</p> <p>QI Macros is compatible with Microsoft Excel 2021, 2024, and Office 365, and Windows 10 and 11 for PCs.</p> <p><i>They do not interfere with any of Excel's accessibility features.</i></p> <p>QI Macros is also compatible with Microsoft Excel 2021, 2024, and Office 365, and macOS for Macs.</p> <p><i>They do not interfere with any of Excel's accessibility features.</i></p>	QI Macros is a series of add-in macros and templates for Microsoft Excel that harness all the accessibility features of Microsoft Excel.

Section 1194.21 Software Applications and Operating Systems – Detail

Criteria	Supporting Features	Remarks and explanations
(a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.	<p>Fully Supported:</p> <p>QI Macros fully support Microsoft Windows® accessibility features. Keyboard access is provided throughout Keyboard shortcuts, shortcut keys, and menu commands.</p>	All QI Macros can be run using Control-Shift key combinations.
(b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.	<p>Fully Supported:</p> <p>QI Macros does not disrupt or disable any accessibility features of the operating system or Microsoft Excel.</p>	

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Section 1194.21 Software Applications and Operating Systems – Detail (Continued)

<p>(c) A well-defined on-screen indication of the current focus shall be provided that moves among interactive interface elements as the input focus changes. The focus shall be programmatically exposed so that Assistive technology can track focus and focus changes.</p>	<p>Fully Supported through Excel: Microsoft Office supports technologies that make computer programs more accessible to people who use assistive technology. Visual on-screen focus and tracking is provided throughout Office.</p>	
<p>(d) Sufficient information about a user interface element including the identity, operation and state of the element shall be available to Assistive technology. When an image represents a program element, the information conveyed by the image must also be available in text.</p>	<p>Fully supported through Excel: QI Macros User Interface elements include menu bars, toolbars, check boxes and buttons, to name a few.</p>	
<p>(e) When bitmap images are used to identify controls, status indicators, or other programmatic elements, the meaning assigned to those images shall be consistent throughout an application's performance.</p>	<p>Fully supported through Excel: Microsoft Office utilizes standard and consistent images throughout the Office suite of applications.</p>	
<p>(f) Textual information shall be provided through operating system functions for displaying text. The minimum information that shall be made available is text content, text input caret location, and text attributes.</p>	<p>Fully supported through Excel: Microsoft Office uses standard system functions to send textual information to the operating system in all cases.</p>	
<p>(g) Applications shall not override user selected contrast and color selections and other individual display attributes.</p>	<p>Fully supported through Excel: Microsoft Office supports system-wide color settings as identified in the operating system display properties.</p>	
<p>(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.</p>	<p>Not Applicable</p>	<p>No animation.</p>

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Section 1194.21 Software Applications and Operating Systems – Detail (Continued)

Criteria	Supporting Features	Remarks and explanations
(i) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	Supported	QI Macros does not use color as the only means to convey chart information. QI Macros control charts that use color to convey stability information also provide alternate means of evaluating the same information.
(j) When a product permits a user to adjust color and contrast settings, a variety of color selections capable of producing a range of contrast levels shall be provided.	Fully supported through Excel	
(k) Software shall not use flashing or blinking text, objects, or other elements having a flash or blink frequency greater than 2 Hz and lower than 55 Hz.	Fully supported through Excel	QI Macros does not use flashing or blinking objects or text in any application User Interface.
l) When electronic forms are used, the form shall allow people using Assistive technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.	Supported: Microsoft Office electronic form templates fully support assistive technologies through the Visual Basic® for Applications (VBA) model.	All charts and forms generated using QI Macros are Excel documents and therefore accessible using the keyboard and/or any assistive technology that is supported by Microsoft Excel.

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Section 1194.22 Web-based Internet information and applications – Detail

Criteria	Supporting Features	Remarks and explanations
(a) A text equivalent for every non-text element shall be provided (e.g., via "alt", "longdesc", or in element content).	Not Applicable	
(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	Not Applicable	
(c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.	Not Applicable	
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	Not Applicable	
(e) Redundant text links shall be provided for each active region of a server-side image map.	Not Applicable	
(f) Client-side image maps shall be provided instead of server-side image maps except where the regions cannot be defined with an available geometric shape.	Not Applicable	
(g) Row and column headers shall be identified for data tables.	Not Applicable	
(h) Markup shall be used to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.	Not Applicable	
(i) Frames shall be titled with text that facilitates frame identification and navigation	Not Applicable	
(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Not Applicable	

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Section 1194.22 Web-based Internet information and applications – Detail (Continued)

Criteria	Supporting Features	Remarks and explanations
(k) A text-only page, with equivalent information or functionality, shall be provided to make a web site comply with the provisions of this part, when compliance cannot be accomplished in any other way. The content of the text-only page shall be updated whenever the primary page changes.	Not Applicable	
(l) When pages utilize scripting languages to display content, or to create interface elements, the information provided by the script shall be identified with functional text that can be read by Assistive technology.	Not Applicable	
(m) When a web page requires that an applet, plug-in, or other application be present on the client system to interpret page content, the page must provide a link to a plug-in or applet that complies with §1194.21(a) through (l).	Not Applicable	
(n) When electronic forms are designed to be completed on-line, the form shall allow people using Assistive technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.	Not Applicable	
(o) A method shall be provided that permits users to skip repetitive navigation links.	Not Applicable	
(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Not Applicable	

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Section 1194.23 Telecommunications Products – Detail

Criteria	Supporting Features	Remarks and explanations
(a) Telecommunications products or systems which provide a function allowing voice communication and which do not themselves provide a TTY functionality shall provide a standard non-acoustic connection point for TTYs. Microphones shall be capable of being turned on and off to allow the user to intermix speech with TTY use.	Not Applicable	
(b) Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non-proprietary standard TTY signal protocols.	Not Applicable	
(c) Voice mail, auto attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs.	Not Applicable	
(d) Voice mail, messaging, auto-attendant, and interactive voice response telecommunications systems that require a response from a user within a time interval, shall give an alert when the time interval is about to run out, and shall provide sufficient time for the user to indicate more time is required.	Not Applicable	
(e) Where provided, caller identification and similar telecommunications functions shall also be available for users of TTYs, and for users who cannot see displays.	Not Applicable	

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Section 1194.23 Telecommunications Products – Detail (Continued)

Criteria	Supporting Features	Remarks and explanations
(f) For transmitted voice signals, telecommunications products shall provide a gain adjustable up to a minimum of 20 dB. For incremental volume control, at least one intermediate step of 12 dB of gain shall be provided.	Not Applicable	
(g) If the telecommunications product allows a user to adjust the receive volume, a function shall be provided to automatically reset the volume to the default level after every use.	Not Applicable	
(h) Where a telecommunications product delivers output by an audio transducer which is normally held up to the ear, a means for effective magnetic wireless coupling to hearing technologies shall be provided.	Not Applicable	
(i) Interference to hearing technologies (including hearing aids, cochlear implants, and assistive listening devices) shall be reduced to the lowest possible level that allows a user of hearing technologies to utilize the telecommunications product.	Not Applicable	
(j) Products that transmit or conduct information or communication, shall pass through cross-manufacturer, non-proprietary, industry-standard codes, translation protocols, formats, or other information necessary to provide the information or communication in a usable format. Technologies which use encoding, signal compression, format transformation, or similar techniques shall not remove information needed for access or shall restore it upon delivery.	Not Applicable	

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Section 1194.23 Telecommunications Products – Detail (Continued)

Criteria	Supporting Features	Remarks and explanations
(k)(1) Products which have mechanically operated controls or keys shall comply with the following: Controls and Keys shall be tactiley discernible without activating the controls or keys.	Not Applicable	
(k)(2) Products which have mechanically operated controls or keys shall comply with the following: Controls and Keys shall be operable with one hand and shall not require tight grasping, pinching, twisting of the wrist. The force required to activate controls and keys shall be 5 lbs. (22.2N) maximum.	Not Applicable	
(k)(3) Products which have mechanically operated controls or keys shall comply with the following: If key repeat is supported, the delay before repeat shall be adjustable to at least 2 seconds. Key repeat rate shall be adjustable to 2 seconds per character.	Not Applicable	
(k)(4) Products which have mechanically operated controls or keys shall comply with the following: The status of all locking or toggle controls or keys shall be visually discernible, and discernible either through touch or sound.	Not Applicable	

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Section 1194.24 Video and Multi-media Products – Detail

Criteria	Supporting Features	Remarks and explanations
a) All analog television displays 13 inches and larger, and computer equipment that includes analog television receiver or display circuitry, shall be equipped with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast, cable, videotape, and DVD signals. As soon as practicable, but not later than July 1, 2002, widescreen digital television (DTV) displays measuring at least 7.8 inches vertically, DTV sets with conventional displays measuring at least 13 inches vertically, and stand-alone DTV tuners, whether or not they are marketed with display screens, and computer equipment that includes DTV receiver or display circuitry, shall be equipped with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast, cable, videotape, and DVD signals.	Not Applicable	
(b) Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.	Not Applicable	
(c) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain speech or other audio information necessary for the comprehension of the content, shall be open or closed captioned.	Not Applicable	
(d) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain visual information necessary for the comprehension of the content, shall be audio described.	Not Applicable	

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Section 1194.24 Video and Multi-media Products – Detail (Continued)

Criteria	Supporting Features	Remarks and explanations
(e) Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.	Not Applicable	

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Section 1194.25 Self-Contained, Closed Products – Detail

Criteria	Supporting Features	Remarks and explanations
(a) Self-contained products shall be usable by people with disabilities without requiring an end-user to attach Assistive technology to the product. Personal headsets for private listening are not Assistive technology.	Not Applicable	
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Not Applicable	
(c) Where a product utilizes touchscreens or contact-sensitive controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).	Not Applicable	
(d) When biometric forms of user identification or control are used, an alternative form of identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided.	Not Applicable	
(e) When products provide auditory output, the audio signal shall be provided at a standard signal level through an industry standard connector that will allow for private listening. The product must provide the ability to interrupt, pause, and restart the audio at any time.	Not Applicable	

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Section 1194.25 Self-Contained, Closed Products – Detail (Continued)

Criteria	Supporting Features	Remarks and explanations
(f) When products deliver voice output in a public area, incremental volume control shall be provided with output amplification up to a level of at least 65 dB. Where the ambient noise level of the environment is above 45 dB, a volume gain of at least 20 dB above the ambient level shall be user selectable. A function shall be provided to automatically reset the volume to the default level after every use.	Not Applicable	
(g) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	Not Applicable	
(h) When a product permits a user to adjust color and contrast settings, a range of color selections capable of producing a variety of contrast levels shall be provided.	Not Applicable	
(i) Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Not Applicable	
(j) (1) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: The position of any operable control shall be determined with respect to a vertical plane, which is 48 inches in length, centered on the operable control, and at the maximum protrusion of the product within the 48-inch length on products which are freestanding, non-portable, and intended to be used in one location and which have operable controls.	Not Applicable	

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Section 1194.25 Self-Contained, Closed Products – Detail (Continued)

Criteria	Supporting Features	Remarks and explanations
(j)(2) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Where any operable control is 10 inches or less behind the reference plane, the height shall be 54 inches maximum and 15 inches minimum above the floor.	Not Applicable	
(j)(3) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Where any operable control is more than 10 inches and not more than 24 inches behind the reference plane, the height shall be 46 inches maximum and 15 inches minimum above the floor.	Not Applicable	
(j)(4) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Operable controls shall not be more than 24 inches behind the reference plane.	Not Applicable	

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Section 1194.26 Desktop and Portable Computers – Detail

Criteria	Supporting Features	Remarks and explanations
(a) All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4).	Not Applicable	
(b) If a product utilizes touchscreens or touch-operated controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).	Not Applicable	
(c) When biometric forms of user identification or control are used, an alternative form of identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided.	Not Applicable	
(d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards	Not Applicable	

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Section 1194.31 Functional Performance Criteria – Detail

Criteria	Supporting Features	Remarks and explanations
(a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for Assistive technology used by people who are blind or visually impaired shall be provided.	<p>Supported:</p> <p>Microsoft Office supports technologies that make computer programs more accessible to people who use assistive technology. Office supports the use of screen readers to access user interface information.</p>	<p>Control charts provide a data sheet which contains values and text for each chart readable with assistive technology.</p> <p>The control chart rules file (used for chart stability analysis) is in text format, which is readable with assistive technology.</p> <p>In addition to images, all QI Macros charts communicate information in text format, which is readable with assistive technology</p>
(b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for Assistive technology used by people who are visually impaired shall be provided.	<p>Supported:</p> <p>Microsoft Office supports the use of screen readers to access user interface information.</p> <p>Office, with few exceptions, also supports system large font settings.</p>	<p>QI Macros users with visual acuity of less than 20/70 may utilize the Windows Ease of Access Center to optimize display settings.</p> <p>Textual information may be enlarged as needed using Excel's spreadsheet zoom function, or by reformatting text to a larger font.</p> <p>QI Macros chart elements and legends may be re-sized and reformatted for visual needs using Excel's formatting functions.</p>
(c) At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for Assistive technology used by people who are deaf or hard of hearing shall be provided.	<p>Fully supported through Excel:</p> <p>Microsoft Office does not require user hearing for access to any Office application functionality. In all instances where Office provides an audio, Office provides a visual cue as well.</p>	

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Section 1194.31 Functional Performance Criteria – Detail (Continued)

Criteria	Supporting Features	Remarks and explanations
(d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.	<p>Fully supported through Excel:</p> <p>Microsoft Office does not require user hearing for access to any Office application functionality. In all instances where Office provides an audio, Office provides a visual cue as well.</p>	Volume controls are available through the operating system. In addition, an assistive aid may be used
(e) At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for Assistive technology used by people with disabilities shall be provided.	<p>Fully supported through Excel:</p> <p>Office applications do not require speech recognition.</p> <p>Microsoft Office includes speech recognition as a supplementary input and control mechanism.</p>	
(f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.	<p>Fully supported through Excel:</p> <p>Microsoft Office supports operating system tools such as StickyKeys and FilterKeys as well as other assistive technologies.</p> <p>The FilterKeys accessibility feature allows the user to set the keyboard repeat rate, acceptance delay and bounce rate.</p>	

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Section 1194.41 Information, Documentation, and Support – Detail

(a) Product Support Documentation	Supported	<p>Documentation is provided in digital format for customers on the web and is available here to download, at no charge.</p> <p>Users requiring accessibility documentation in text or large print format may request it at no additional charge.</p>
(b) Accessibility and Compatibility Features	Supported	<p>Users requiring accessibility documentation in text or large print format may request it at no additional charge.</p>
(c) Support Services	Supported	<p>Support is offered to QI Macros users in the form of phone assistance, online chat, and email.</p>

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