

GE AICC/SCORM eLearning - Technical Specifications

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Categories	Check List Items	Remarks
Core Load		
Specifications		
All eLearning developed for (GE is expected to work well with the Core Load specifications pro	vided below:
Browsers	 Desktop/Laptop: Internet Explorer 8, and Internet Explorer 11 Enterprise Mode, FireFox (latest) and Chrome (latest), Safari (latest) iPad: Safari 	
Operating Systems	Desktop/Laptop: Windows 7, MAC OS XiPad: iOS 8 and up	
Hardware Model	☐ iPad: iPad 3 and above	
Minimum Resolution	□ Desktop/Laptop: 1024 x 768□ iPad: Fit landscape mode	
Plugin Support	□ iPad: NA	
Learning Standards		
	 All eLearning courseware needs to follow AICC HACP, SCORM 1.2, or SCORM 2004 standards GE recommends the use of SCORM 1.2 standards 	
LMS Platform		
	☐ GE currently uses SumTotal v. 8.9 (currently known as GE Learning)	
Approx. Timeline for hos	sting a course in GE Learning	
	 Budget for approximately 2 weeks from raising a GCRM ticket to have a course hosted in GE Learning Production 	
Generic AICC/SCORM Publish Settings in Rapid Authoring tools		
	 Standard - AICC/ SCORM 1.2 / SCORM 2004 Set Pass Percentage - 80%(Recommended) Completion Criteria - Completion of Course & Quiz (or) Completion of only Course (or) Completion of only Quiz Status Representation - Incomplete/Complete (or) Passed/Failed 	
Authoring / Development Tools		
	ools/templates that publish an HTML5 output, which is mobile/de	evice compatible.
Rapid Authoring Tools	Recommended but not restricted to: Articulate Storyline, Articulate Presenter, Captivate, Ancile uPerform, Trivantis Lectora, Techsmith Camtasia	
Custom Development	 Recommended: HTML5 template created using HTML, JavaScript, CSS 2, and XML 	
Develop Exams		

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	For exams developed using Rapid Authoring tools, use these publish settings: AICC packages Exam embedded within the course: Pass back the actual score and status of "Complete/Incomplete" No exam embedded within the course: Pass back the status of "Complete/Incomplete" SCORM packages: Exam embedded within the course: Pass back the actual score and status of "Passed/Failed" No exam embedded within the course: Pass back the status of "Complete/Incomplete"	
Usage of Plugins		
	 Use of Flash or plug-ins are not allowed as Mobile devices will block Flash and Java content by default and there are no provisions to enable them New content should not rely on plugins including Flash and other third party proprietary plugins, especially if you foresee a shelf-life of more than two years for the content 	
Usage of Media	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Video	 □ Videos should not be longer than three minutes □ Video player must have "progressive download" capability □ All video files need to be optimized □ Video files should include a transcript and CC text □ Maximum video file size should not exceed 5 MB 	
	Encoding setting needs to strictly follow the guidelines: Video Container: MP4 Video Codec: H264 Bitrates: 768kbs VBR / 30fps (key frames per second) Size: 480p (720×480, 704×480, 640×480, 480×480) Filtering: Deinterlace Audio Codec: AAC Bitrates: 64kbs VBR mono	
Audio	 □ Audio Format: MP3, MP4 (recommended) □ Codec: MP3, AAC (recommended) □ Use the same settings provided for Video, without the video channel 	
Images	 For photographic type images, JPG is best For logos or images with blocks of flat color and no gradients, GIF or PNG8 For images using effects such as drop shadows or glows, which also require transparency, choose PNG24 	

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Visual Design		
Branding	☐ Refer to Brand Central for GE visual branding	
Tout and South	guidelines – refer http://www.gebrandcentral.com/	
Text and Fonts	 Recommended: GE Inspira font for development Use consistent color for text and graphics 	
	 Use consistent color for text and graphics throughout a course 	
	☐ Use San Serif fonts and avoid decorative font	
	families	
	☐ Break up blocks of text to make it easier for the	
	learner to scan the content	
Standards for Mobile		
Devices		
	 All UI design is to be touch optimized There should be no important messages in tooltips 	
	or right-click	
	☐ Images need to be large in order to be navigated by	
	touch	
	☐ If using Quick Response (QR) Codes, makes sure	
	images to be scanned are large enough and in good focus	
	☐ Keep in mind of the following screen sizes: 960×540	
	iPhones , 2560x1440 tablet	
	☐ Use of flash is not supported on all mobile devices.	
	Refrain from using flash	
	☐ Limit scrolling to one direction	
	 Keep mobile screen simple and uncomplicated Extensive Mobile Web Best Practices are available at 	
	- https://www.w3.org/TR/mobile-bp/	
Web Content		
Accessibility/ 508		
Compliance		
	☐ Comply with current industry standards concerning	
	training and website accessibility to individuals with vision and hearing impairments and/or other	
	disabilities.	
	☐ Keep navigation simple and the style consistent	
	 Include closed captioning text with videos and 	
	animations	
	 Screen readers are used to read the alternative text (alt tags) in a web browser. Use alt tags when 	
	possible	
	 When displaying graphics and data, provide a 	
	meaningful description for the learner beneath the	
	chart	
	 Minimize the use of complex navigation, like drop down lists and excessive clicking 	
	Do not render text into picture formats. Screen	
	readers cannot read static images	

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Development and		
Coding Guidelines		
	☐ All resources have to be externalized	
	☐ All text resources have to be stored in flat files and	
	editable via any text editor. XML and JSON formats are recommended	
	 All URL have to be relative and it is strictly forbidden 	
	to have hard coded links to the LMS in the module	
	☐ Vendors and/or course owners shall provide all	
	course (final output) and source files (assets) when	
	sending a GCRM request to host the course files in Production.	
	 Externalize hyperlinks within the courses going to 	
	documents.	
	Do not include links to content/sites that require SSO	
	access and/or require a separate set of credentials.Do not include native media elements in the training	
	(for example, do not include Web-Ex format of	
	videos in training. Always convert the videos into a	
	MP4 format and ensure that they are included as	
	part of a SCORM/AICC package.) Read and Acknowledgements: Files such as	
	Documents, mp4, video files etc. should have a	
	SCORM/AICC wrapper and/or be developed in a	
	Rapid Authoring tool and submitted as a package for	
	hosting on the LMS	
Testing of Courses		
	 Prior to providing to LMS solutions team, eLearning 	
	developer needs to test and verify that course is working based on GE Core Load Specs	
	 All eLearning courses need to be tested based on GE 	
	Core Load Specs on F5 VPN or myApps	
	☐ All courses must be confirmed in Production that	
	they behave as tested in Dev/Staging area Each course shall be tested for mobile compatibility	
	Eder course shall be tested for mobile compatibility	
	LMS solutions team shall test each course on the LMS Dev	
	environment to check: — Whether the content launches fine from the LMS	
	☐ Whether course launches on the last exited page	
	☐ Whether on completion of the course, the course is	
	marked complete in the LMS and given credit	
	☐ Whether all functionality built into the course works	
	the way it was set out to do Whether the Bookmark functionality works fine	
	☐ Whether all the course content is in place without	
	any broken links	

Additional Resources

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- Link to Branding Guidelines: http://www.gebrandcentral.com/
- Link to Web Content Accessibility: https://www.w3.org/WAI/intro/wcaq
- Link to section 508: http://www.section508.gov/
- Link to Mobile Development Standards: https://www.w3.org/TR/mobile-bp/