

## Consortium of Healthcare Education Online (CHEO) Skill Bite Development Process

To: JoAnn Lopez

Prepared By: Microburst Learning

Date: March 30, 2016

Subject: Skill Bite SME Review

Consortium of Healthcare Education Online (CHEO) partnered with Microburst Learning (MBL) to work with instructors to create Skill Bites and ensuring that Skill Bites met ADA compliance standards and standards for online learning.

The purpose of the Skill Bites is to provide innovative and sophisticated applications of technology to effectively teach content to students, enable students to teach themselves and each other, and/or allow students to engage in hands-on learning. Online and technology-enabled learning strategies can support competency-based assessment models and models for accelerated learning.

MBL used the following process to create these Skill Bites.

### **Development**

MBL's design team created Skill Bites in a SCORM package that is AIM/CAST and ADA compliant and created interactive elements to use within the Skill Bites. Some examples of interactive elements that were used are drag and drop activities, virtual process interactions, virtual scenarios, and step-by-step process interactions. The aim of the interactions was to make the Skill Bites more engaging to the students and to give the students a virtual "hands-on" experience that offered them a deeper level of learning.

MBL developed a custom rubric that analyzed each Skill Bite on a number of standards, including ADA Compliance, ADDY Design Standards and compliance standards from the Skills Commons Accessibility Checkpoints Guide. MBL representatives also attended a Storyline conference on accessibility and a U.S. DOL workshop on accessibility and included those findings in the rubric. Additionally, MBL included a number of AIM/CAST Compliance standards on the rubric, including:

- Closed Captioning in videos (and/or transcripts as requested)
- Control of volume for the video and narration on the slide
- Video and audio with no music in the background
- Video controller where the user can play, pause and go to a direct location in the video
- Narration of text on screen
- Text accessible via JAWS screen reader
- Keyboard support for all areas on a slide, if an interaction is a drag and drop or hot spot type interaction, an alternative keyboard supported interaction is provided

## Consortium of Healthcare Education Online (CHEO) Skill Bite Development Process

- Flicker reduction (no flashing or blinking objects or other elements with a frequency greater than 2 Hz and lower than 55 Hz)
- Text equivalents are provided for all non-decorative non-text elements
- Object's or image's type, state, and description is passed to the accessibility interface
- Color coding is not used as the only means of conveying information indicating an action, prompting a response or distinguishing a visual element
- Color contrast approved ratio for background and foreground colors is 4.5:1 or greater
- Contains Clear and Consistent Navigation
- Attachments and lessons are in Word vs pdf and have contrast between headings, text, and backgrounds
- Hyperlinks are active and clearly identified
- Page numbers listed in online material match printed text
- Table Markup includes identifiers (rows and columns that is compatible with assistive technology or rendered in an application such as a browser that offers this functionality)
- Audio/video content is shown in a media player that supports closed captioning

MBL reviewers used this custom rubric to develop each Skill Bite on the aforementioned standards.

### **Work with Subject Matter Experts**

MBL worked with instructors to determine content and scope to include in the Skill Bites. For some Skill Bites, MBL filmed processes and took photographs to support content. Based on the content from the instructors, MBL scripted and built out

MBL then sent the completed SCORM packages to the Subject Matter Expert (SME) designated by the college for review. SMEs were instructed to review the Skill Bites for content accuracy, functionality and design. Additionally, SMEs were instructed to review the narration for pronunciation of technical and scientific terms. MBL made any modifications requested by the SMEs and this review process was repeated until the packages were approved.

The following SMEs were provided by CHEO and were involved in this process:

- Shawna Chamberlain
- Kathleen Collins
- Roger Cox
- Maria Fieth
- Gayla Horn
- Geri Koncilja
- Robin Leach
- Tiana Lemley
- JoAnn Lopez
- Jeremy Mares

## Consortium of Healthcare Education Online (CHEO) Skill Bite Development Process

- Dawn Mathis
- Mary K. McMahon
- Tanya Musso
- Tatiana Parker
- Henri Santiago
- Nancy Scofield
- Tammy Stoeber
- Michele Sweeney
- Shanda Vidmar

### **Additional Information**

For additional information regarding Microburst Learning's review process and custom rubric, please call 803-719-5073.

This product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.

Consortium for Healthcare Education Online project material by CHEO Project TAACCCT Round 2 licensed under a [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/).

