

# Design Document: Hospital Fire Safety Course

*Designed and Developed by Cynda Fickert*

<b>Business Purpose</b>	<p>According to the National Fire Protection Agency (NFPA), more than 5,000 fires occurred annually at medical facilities between 2011-2015. Those fires led to an annual average of two fatalities, more than 150 injuries, and over 50 million dollars in property damage. The Occupational Safety and Health Administration (OSHA) tasks medical facility employers with training all workers about fire hazards and what to do in a fire emergency.</p> <p>The purpose of this course is to meet OSHA training requirements for all hospital employees. These training modules will address how to prevent, prepare for, and respond to hospital fire emergencies.</p> <p>This design document references the first of three modules.</p>
<b>Target Audience</b>	<p>This training is generalized enough to be appropriate for all hospital employees. Future training programs will provide more extensive job-related information for groups of employees such as nurses, orderlies, and administrative personnel.</p>
<b>Training Time</b>	<p>20 minutes per module; 1 hour total</p>
<b>Training Recommendation</b>	<p>The training recommendation is 1 eLearning Course delivered with three 20-minute modules (this design document references the first module). eLearning uses small, well-planned chunks of information, allows time and location flexibility for learners to complete the course, and it does not require a facilitator. Each module focuses on 1-2 objectives linked to overarching course objectives. By chunking course content into 20-minute segments, employees are able to spread the training across multiple days/shifts, allowing for shorter blocks of time away from their normal duties.</p> <p>The course is based in a realistic hospital setting with a single medical-personnel narrator, and it will include an introduction and background information establishing the training importance. Following the introduction, this first module covers the fire triangle and hospital fire hazards. It includes one scenario for users to practice identifying fire hazards. This module concludes with a knowledge check consisting of two non-graded questions.</p>
<b>Deliverables</b>	<ul style="list-style-type: none"><li>• 1 eLearning Storyboard</li><li>• 1 eLearning course with three modules (this design document references the first module), developed in Articulate Storyline with voiceover narration and a virtual hospital nurse avatar</li></ul>

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	<ul style="list-style-type: none"><li>• Includes 2 non-graded knowledge check questions with feedback</li><li>• Includes 2 scenarios (during instruction and as a knowledge check question)</li><li>• Includes 1 final graded assessment</li></ul>
<b>Learning Objectives</b>	<p>At the end of this module, learners will be able to:</p> <ul style="list-style-type: none"><li>• List three components of fire.</li><li>• Identify potential fire hazards in a hospital setting.</li></ul>
<b>Training Outline</b>	<ul style="list-style-type: none"><li>• Introduction<ul style="list-style-type: none"><li>○ Welcome</li><li>○ Navigation</li><li>○ Course Organization</li></ul></li><li>• Hospital fire statistics to establish importance of this training</li><li>• Module 1 - Fire Prevention Introduction<ul style="list-style-type: none"><li>○ Objectives</li><li>○ Select Content Path<ul style="list-style-type: none"><li>▪ Fire Triangle</li><li>▪ Fire Hazards</li></ul></li></ul></li><li>• Fire Triangle<ul style="list-style-type: none"><li>○ VO narration explaining three components of fire (fuel, heat, and oxygen)</li><li>○ Each component is defined, and reference examples are from hospital settings.</li></ul></li><li>• Fire Hazards<ul style="list-style-type: none"><li>○ Scene is a hospital waiting room. Learner practices identifying fire hazards. Feedback and VO narration explain correct choices.</li><li>○ Scene is a hospital corridor. Various items are marked and have pop up text boxes explaining why they are fire hazards.</li></ul></li><li>• Knowledge check on module objectives</li></ul>
<b>Evaluation Plan</b>	<p>Learners will complete ungraded knowledge check questions at the end of each 20-minute module. Knowledge checks may use a variety of interactions (such as multiple-choice questions, true/false questions, matching, etc.). Correct answers will be reinforced with positive feedback. Incorrect answers will direct learners back to the information in the module.</p> <p>After completing all three modules, they will complete a final assessment covering all <i>course</i> objectives. They must score 80% or higher to pass the course.</p>

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