NIEHS WETB SBIR Update

May 3, 2011

Dan Suhr

inXsol, LLC

CommandPlan

Incident Command Training Platform

Powered by: inXsol elearning edutainment simulations

NIH GRANT SUPPORT AND DISCLAIMER - The project described is supported by Grant Number R43ES015697 from the National Institute of Environmental Health Sciences. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institute of Environmental Health Sciences or the National Institutes of Health.

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May 2011

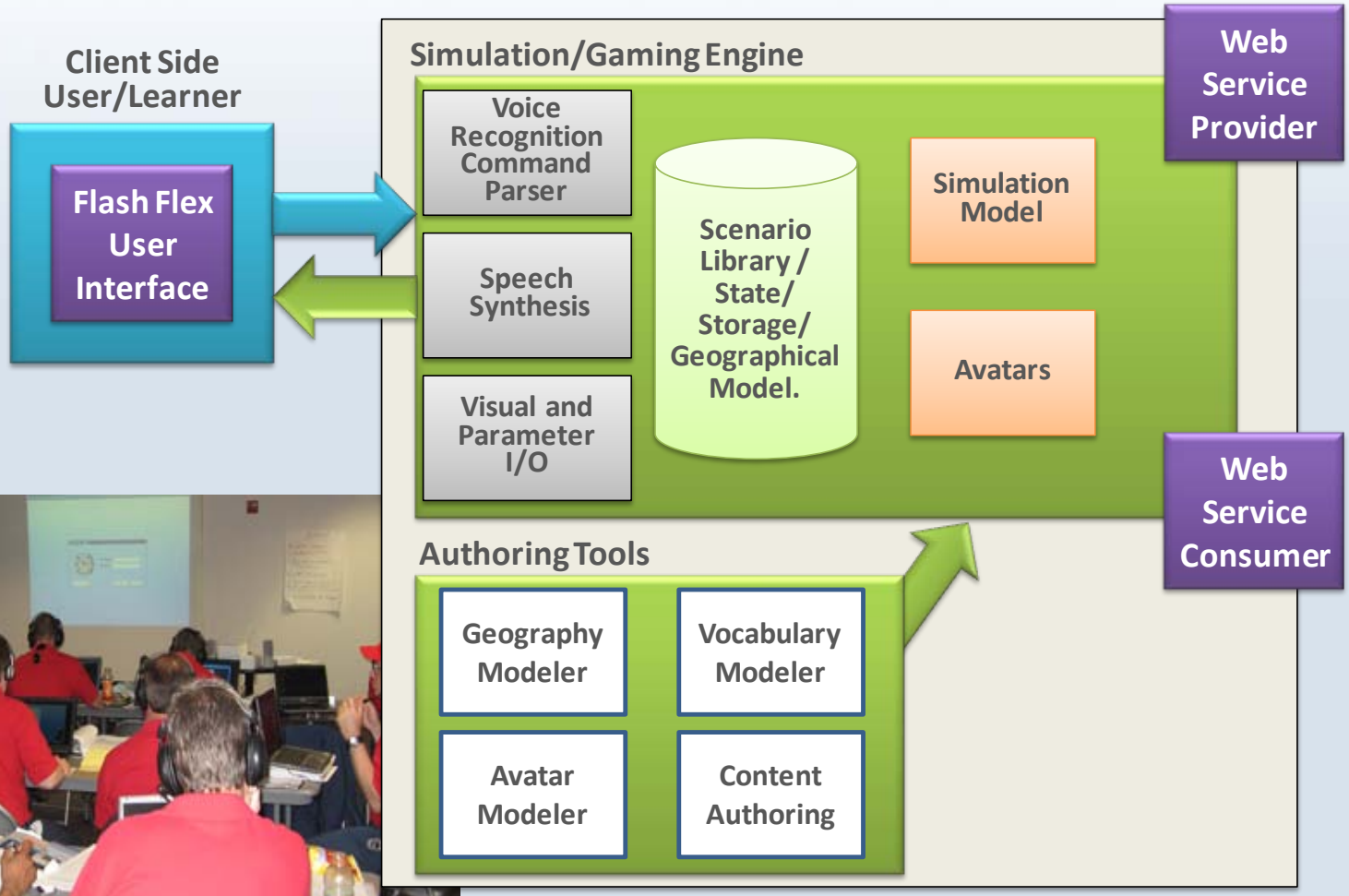
HAZMAT/MC Training Challenges...

- Incident Commanders have limited opportunities to exercise their IC skills.
- Simulation-based training generally uses generic environments for scenarios.
- Simulation software is expensive.
- Custom scenarios are expensive.
- Exercises and scenarios are difficult to share among different agencies.

Solutions...

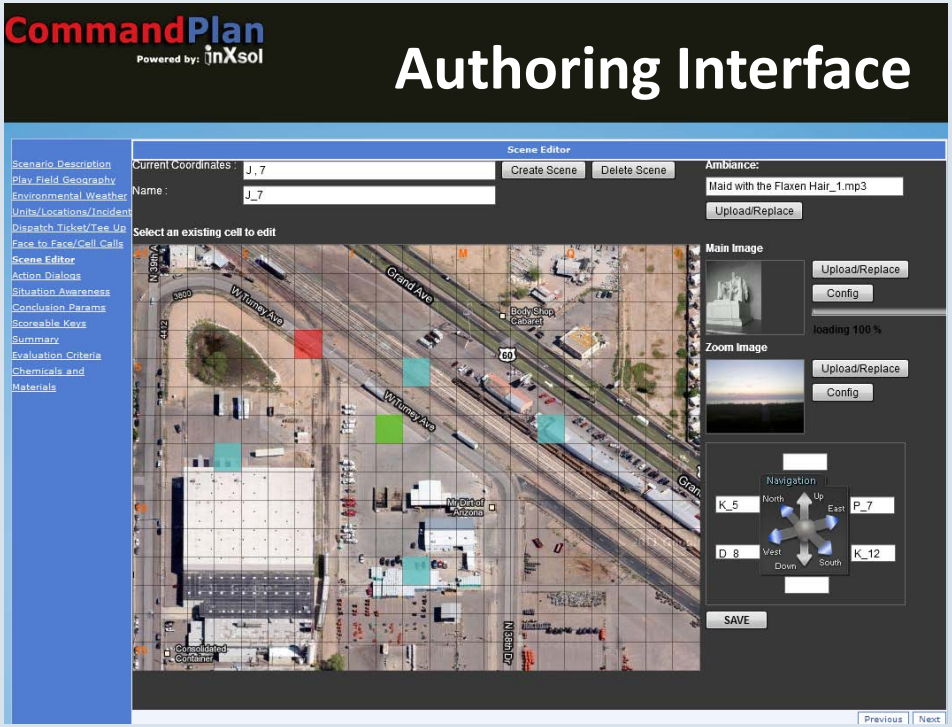
- Low-cost web-based IC simulation.
- Authorable scenarios.
- Ability to share with other agencies or communities.
- Link simulation scoring to specific training.
- Author flexible in building scenario complexity.

Technology Web-based Structure



Next Steps…

- Complete and test web-based product and HAZMAT scenarios. (7/2011)
- Participate with other organizations in applying for training grants.
- Expand simulation beyond traditional incident command (fire/HAZMAT) roles into large event incidents, emergency operations centers, industrial and energy facilities, mining, and detention facilities.
- Further integrate training with strategic partners.



Terrell Fulbright

JXT Applications, Inc.

PROTECT© Experiential E-learning

- Interactive, multi-media, scenario based, continuing medical education (CME) e-learning course
- For community health workers (Nurses)
- Focus on pandemic influenza outbreak
  - Patient assessment
  - Personal protection
  - Incident reporting
- Available September 2011 (Internet/DVD)

PROTECT© (Cont)

- Introduction
- News bulletin
- Scenarios
  - Urgent Care
  - Physician Office
  - School Health Clinic
- Medical conditions
  - Avian Influenza
  - H1N1 Influenza
  - Seasonal Influenza
  - Tuberculosis

This briefing contains information proprietary to JXT Applications, Inc.

Patient

You are the nurse at the Urgent Care Center on a summer afternoon. The clerk tells you that she has just signed in 4 new patients.

You review the charts and look at the patients in the waiting room before calling in the first patient. You must evaluate all 4 patients to complete the scenario.

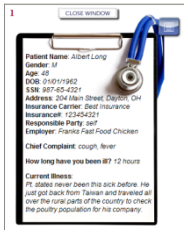
Charts for each patient are available to you and as you obtain information it will go into the chart.

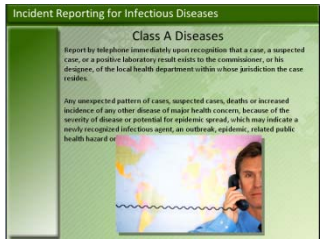
You should select the patients in order of urgency and complete the steps you determine are best for the patient, then proceed to the next patient until you are finished.

Click the **next button** to continue.

PROTECT© (Cont)

- Review charts
- Interview patients
- Take vitals
- Assess medical condition
- Make decision
  - Place in Exam Room
  - Order Diagnostic Tests
  - Take Protective Measures
- Properly use and dispose of PPE
- Report and coordinate incident
- Complete review and test for CEUs





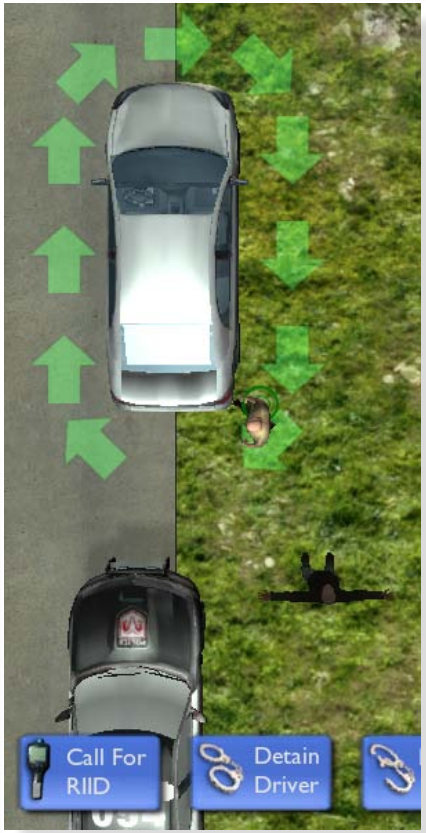
For additional information contact Terry Fulbright
tfulbright@jxtai.com or 937-431-1566 ext 110

Kelly Clark

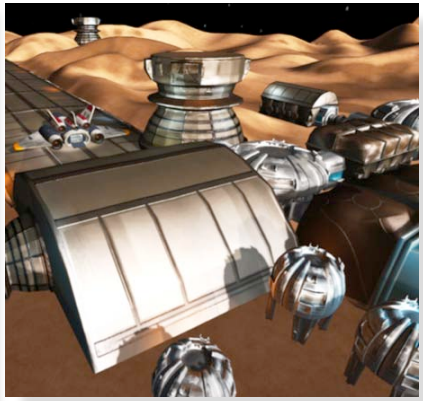
WisdomTools LLC,

an Information In Place Company

WisdomTools: Who Are We?

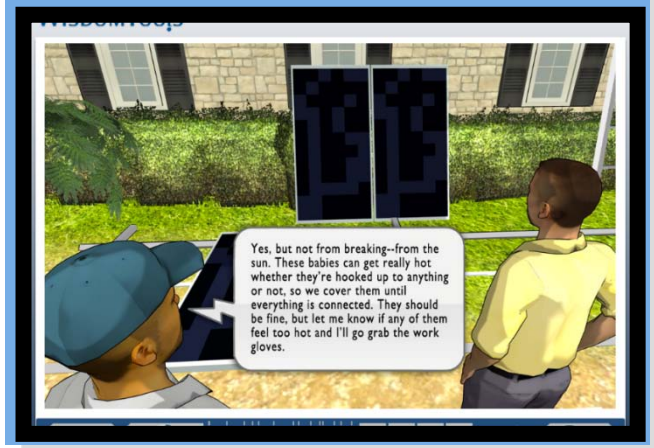


- Custom Course Authoring
- Serious Games, Simulations, Story Based Learning
- Instructional Design



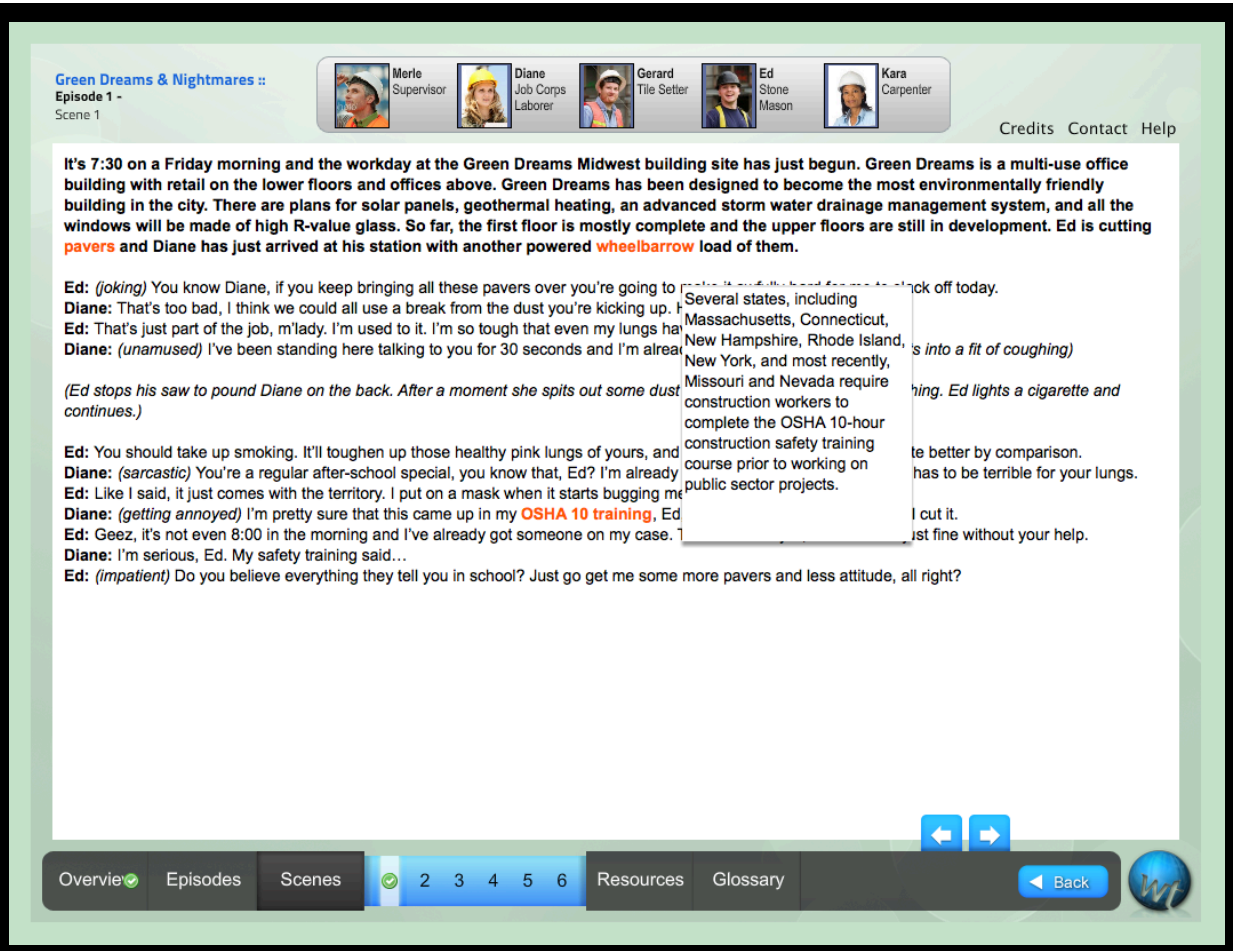
Green Construction CoP: Story-Based Learning Meets WH&S

- **Scenarios**™ and **eScenes**™
  - Scenarios
  - eScenes
- Why use **Scenarios**™?
  - Learning—not memorization—in the same way that real-life experiences teach us all
  - Greater focus on tacit knowledge, shades of gray, and work-around solutions that occur daily in the workplace



Learning Objectives

- Apply the Hierarchy of Controls concept and justify appropriate controls for a given green construction task.
- Identify sources of silica dust and methods for measuring exposure for a given traditional or green construction task.
- Find and describe regulations and recommendations for controlling silica exposure.

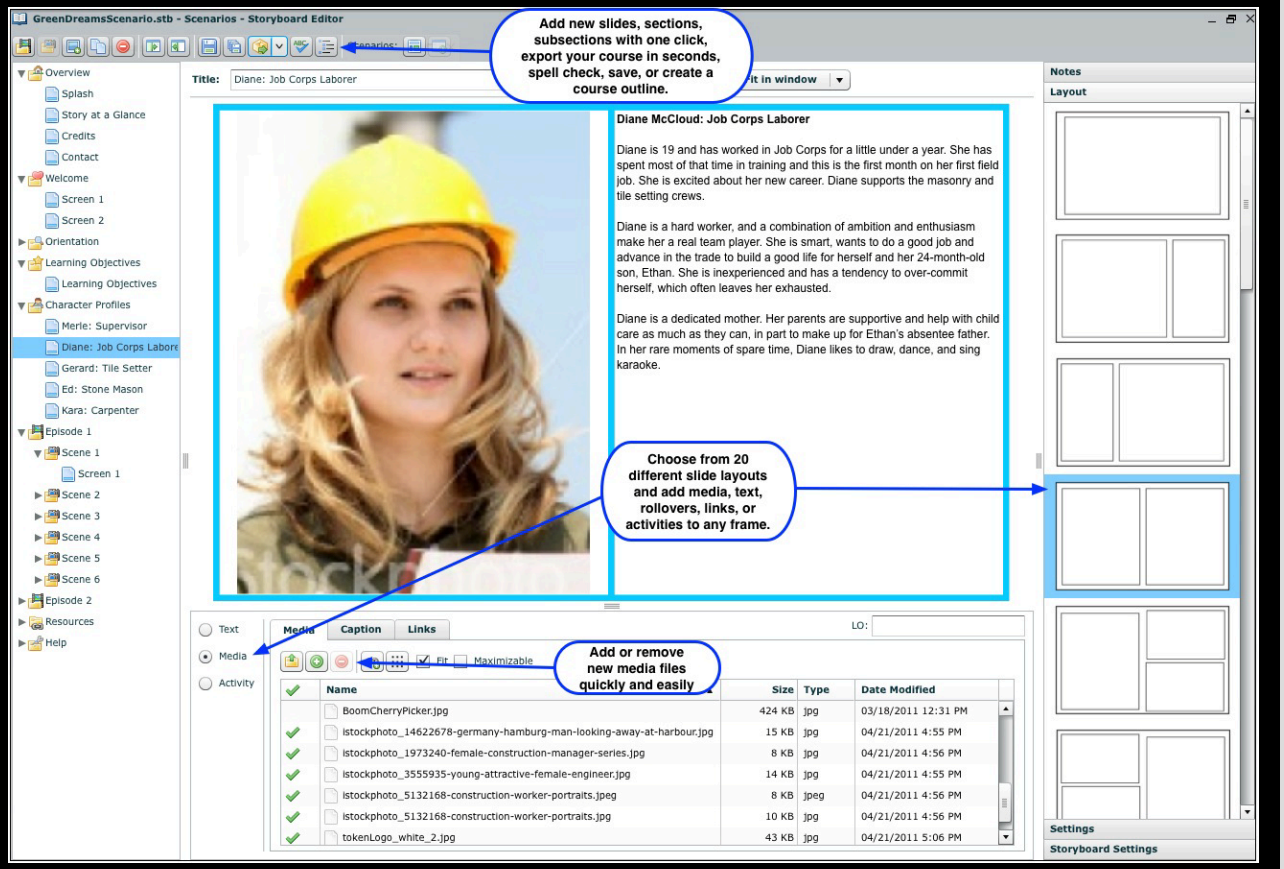


Green Construction CoP:

Using Immersive Stories to Address Silica Exposure in Green Construction

Custom Course Development

- 20 Slide Layouts
- Live Preview
- Export to three different screen resolutions
- Add a sound track
- Embed a video, picture, flash treatment, eScene, or learning activity
- Five built-in activity types
- SCORM compliant exports
- Content authoring with no need for a programmer means it's cost effective and fast



WisdomTools Authoring Studio

Custom eLearning tools made easy, cost effective, and awesome!

Chris Held

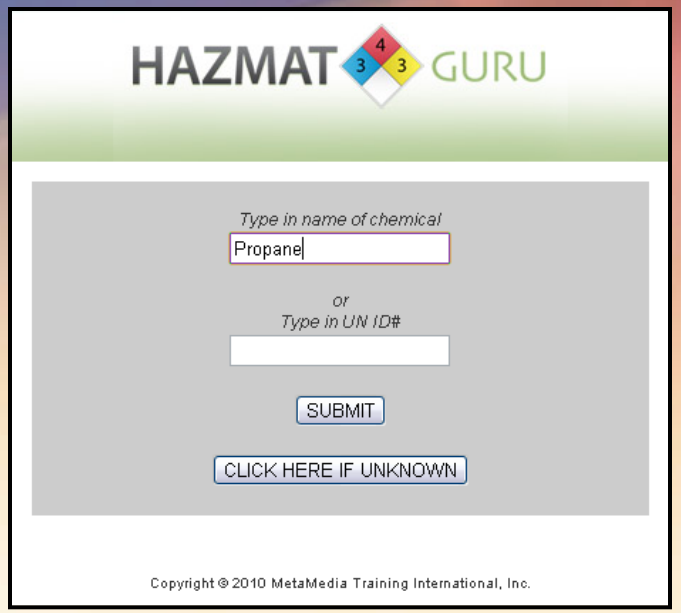
Metamedia Training International, Inc.

HAZMAT GURU

HAZMAT GURU Chemical Entry Screen

On this screen the user can type the name of the chemical or the chemical UN ID#.

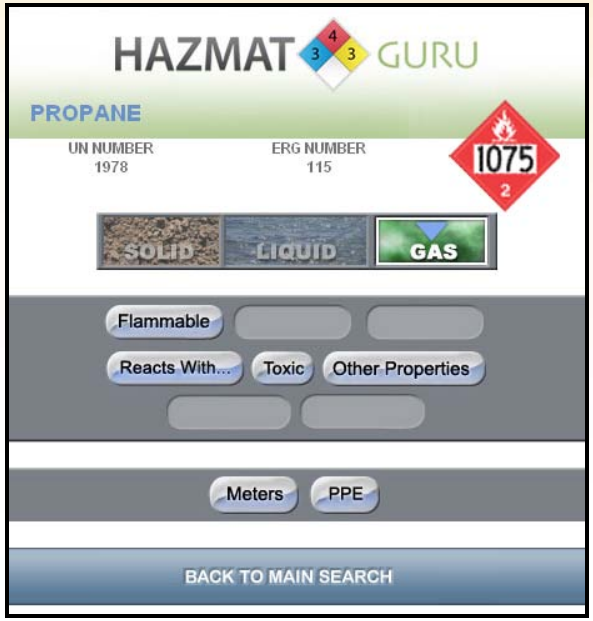
HAZMAT GURU will search its internal database for the chemical properties.



HAZMAT GURU Basic Chemical Properties Screen

On this screen the user will be provided With basic information about the chemical such as:

- UN Number
- ERG Number
- Warning Symbol
- State
- Buttons to access chemical properties
- Buttons to access Meters and PPE



HAZMAT GURU

MetaMedia Training International, Inc.

HAZMAT GURU

FLAMMABLE - propane

FI.P - FLAMMABLE GAS

LEL - 2.1%

UEL - 9.5%

Meters | PPE

BACK

HAZMAT GURU

PPE - propane

PPE is Mission Driven

Rescue Line of Sight | Plumbing

RESCUE LINE OF SIGHT

Quick In • Quick Out
Turn Out / SCBA or Level B

F (Yellow absolute ABORT → Level A)

Running Red Lights → Officer Discretion
Based on degree of difficulty

Meters | PPE

BACK

HAZMAT GURU

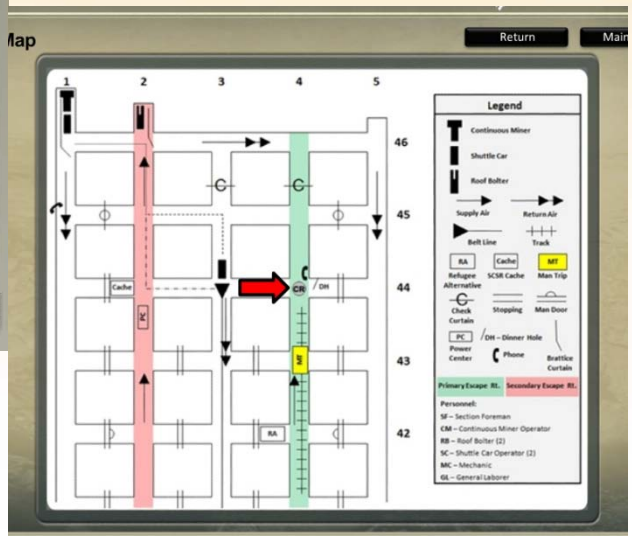
METERS - propane

Red Lights	Gamma 2xBG	Rad radioactive	
	Corrosive Gas	F • pH corrosive	
	Increase Temp.	TempGun reaction	X
	10% T.O. 1% Plastic	CGI LEL/O2	X
	Poison Meters	PID ≤10.6eV	X
		FID CHar	X
		Freons F,Cl,Br,I	
		Tube Chip	X
	Shock Sensitive	Kiss explosive	

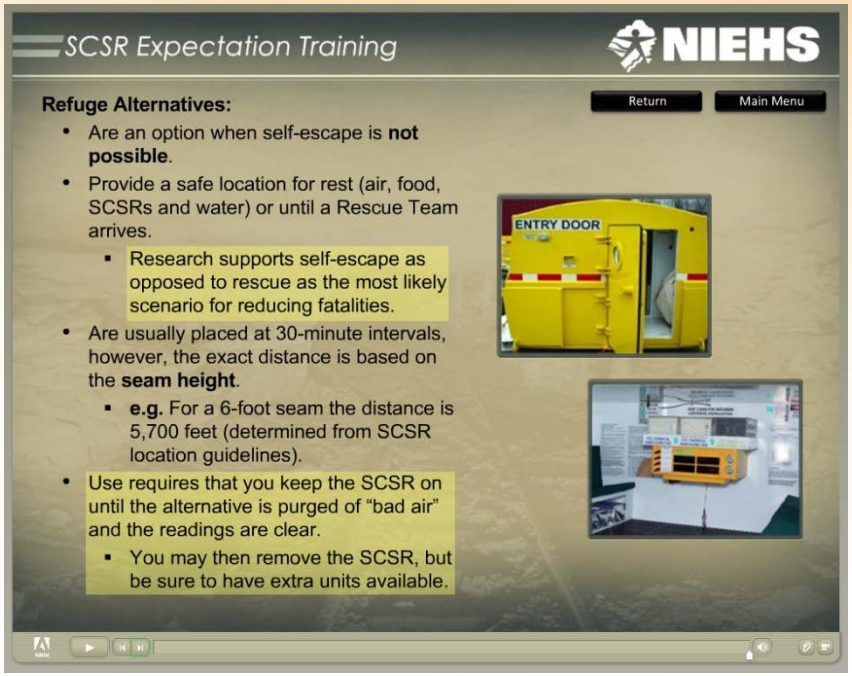
Meters | PPE

BACK

SCSR Expectation Training



SCSR Expectation Training



Jonathan Kaye

Equipment Simulations, LLC

if simulations work…

why don't we use more of them

at work?

Jonathan Kaye, PhD

Equipment Simulations LLC
Virtual Training. Real Results.

...the process to create [simulations] today is too long and too expensive for most organizations to use them beyond the 5% to 10% of their high value/mission critical and external facing courses today. Further, the marketplace for selling and otherwise sharing them is too fragmented to provide reliable returns to attract many content creators. This has resulted in an identified, but unfulfilled need....What is now needed are powerful, flexible, and accessible simulation creation tools as well as a viable, persistent simulation repository and marketplace.

Clark Aldrich

thought leader on educational simulations and games

June 2010

Equipment Simulations LLC

Virtual Training. Real Results.

SimsYouShare.com

- Cloud-based simulation repository and development platform for Public & Industrial Safety instructors
- 'YouTube' of training simulations, with a kick
- Benefits
  1. Simple and consistent development process
  2. Centralized focus, decentralized deployment
  3. Reduced market redundancy through efficient sharing
- Coming 2012

Jonathan Kaye, PhD

MAX
ADOBE 2009 MAX AWARDS
Adobe AWARD WINNER

Equipment Simulations LLC
Virtual Training. Real Results.

Cesar Bandera

Cell Podium, LLC

Unified Cellular Training

- Video, animations, slide shows with voice-over delivered to *any* cell phone
  - Smartphones with Internet access
  - Simple phones with no web browsing
- Media pushed onto phone without user involvement
- View/replay media anytime
- Collect media *from* phones
- Secondary content dissemination
  - peer-to-peer forwarding, viral

Nine Winter Preparedness Videos in Six Weeks

TITLES OF VIDEOS

- Preparing Your Home
- Supplies For Your Home
- Supplies For Your Car
- Heating Your Home Safely
- Monitor Infant Temperature
- Preparing Your Car
- Outdoor Safety
- Avoiding CO Poisoning
- Thank you for watching

Description

How to opt-in

How to opt-out

Invitation E-mail

CDC Winter Weather | Winter Weather Preparedness Videos - Windows Internet Explorer

http://emergency.cdc.gov/disasters/winter/emailsignup.asp

CDC Home

Centers for Disease Control and Prevention
Your Online Source for Credible Health Information

SEARCH

A-Z Index A B C D E F G H I J K L M N O P Q R S T U V W X Y Z #

Emergency Preparedness and Response

- Emergency Preparedness & Response
- Specific Hazards
- Preparedness for All Hazards
- What CDC Is Doing
- What You Can Do
- Blog: Public Health Matters
- What's New

Winter Weather Preparedness Videos

Stay Informed

The Centers for Disease Control and Prevention (CDC) is happy to offer a free mobile subscription service which allows CDC.gov users to receive Winter Weather Preparedness videos by phone. CDC has created videos for your phone to help you be prepared this winter season.

Subscribe Now

To receive winter preparedness videos on your cell phone via MMS or mobile web, dial (973)735-5823 and an automated voice system will guide you through the quick enrollment process. If you wish to receive videos via email to your mobile device, simply send an email to winter@cellpodium.com.

Your email address or phone number will only be used to deliver the requested information.

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Centers for Disease Control and Prevention
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Atlanta, GA 30333
800-CDC-INFO
(800-232-4636)
TTY: (888) 232-6348
24 Hours/Every Day
cdcinfo@cdc.gov

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February 11, 2011

CDC.gov Link to Us All Languages Contact CDC

Rd. Atlanta, GA 30333, USA
Hours/Every Day - cdcinfo@cdc.gov

USA.gov Government Made Easy

Internet 100%

From: Centers for Disease Control & Prevention [mailto:cdc@service.govdelivery.com]
Sent: Friday, February 18, 2011 12:34 PM
To: bandera@ieee.org
Subject: New Winter Weather videos available on your cell phone or email!

You are subscribed to What's New on the Winter Weather Site for Centers for Disease Control and Prevention (CDC). This information has recently been updated:

Cool Tip of the Week: Receive winter weather preparedness videos on your cell phone or email. Enroll today!

Modify/Update Subscriber Preferences | Unsubscribe | Send Feedback | Learn more about CDC Email Updates

To receive the latest news for your region, please update your profile with your country, state and zip code.

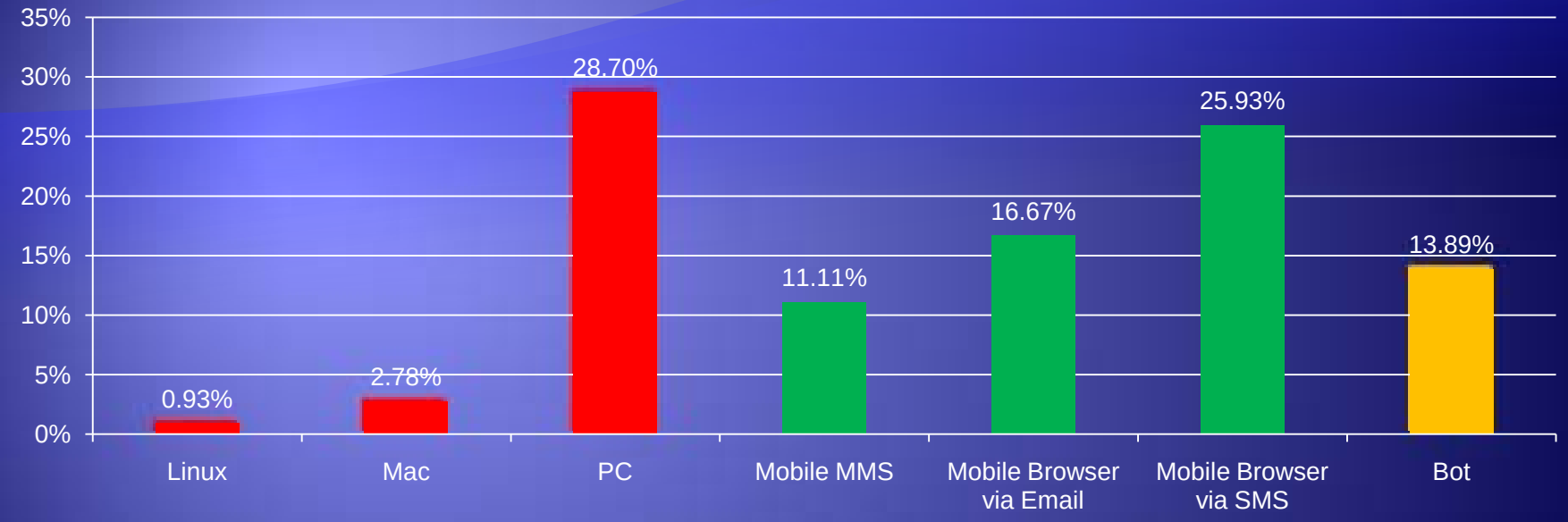
Questions or problems? Please contact support@govdelivery.com.

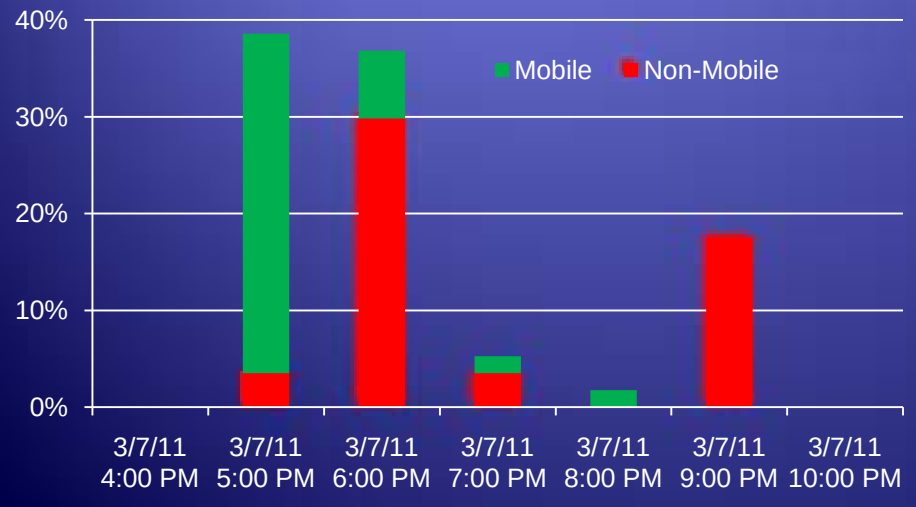
STAY CONNECTED:

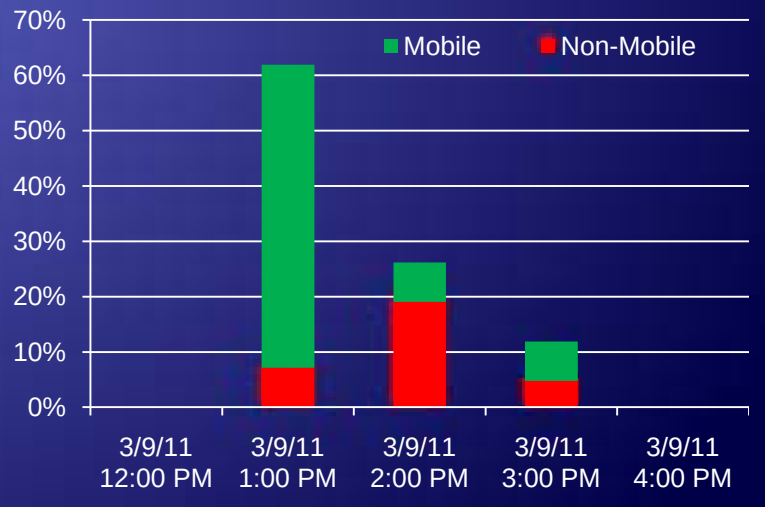
CDC on Facebook CDC on Twitter CDC on YouTube

Centers for Disease Control and Prevention (CDC) · 1600 Clifton Rd · Atlanta GA 30333 · 800-CDC-INFO (800-232-4636)

Cell Phone Users Are More Likely to Watch Videos, and Sooner







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http://www.niehs.nih.gov/careers/hazmat/programs/att/index.cfm