



NATIONAL TRANSPORTATION SAFETY BOARD - **Public Hearing**

Conrail Derailment in Paulsboro, NJ with Vinyl Chloride Release

GROUP	5
EXHIBIT	
AD	

Agency / Organization

International Association of Fire Chiefs

Title

International Association of Fire Chiefs
(IAFC) PowerPoint Presentation Slides



IAFC

INTERNATIONAL ASSOCIATION OF FIRE CHIEFS

National Hazmat Fusion Center

A portion of this program is currently on hold due to funding. IAFC still has a valid contract with PHMSA until November 24, 2012.

www.hazmatfc.com



WWW.IAFC.ORG

Systematic Approach

Data Collection



Analysis



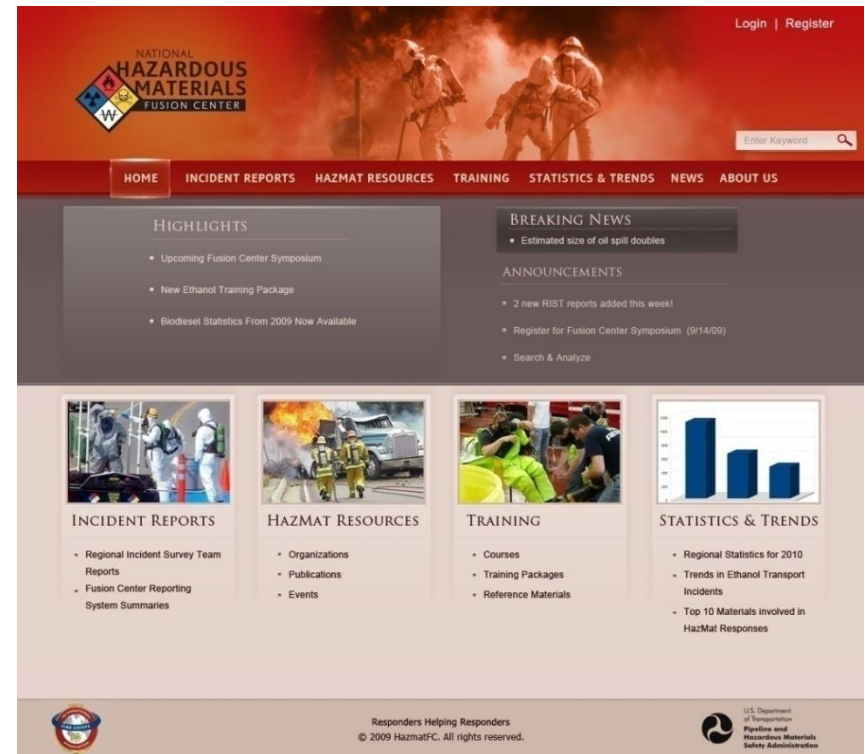
Dissemination



- Web portal released nationally October 2010 (> 1,000 members)
 - 150 new responders are on our list to be registered
- Incident Reporting System (> 64 hazmat teams registered)
 - An additional 20 teams have made requests to join the system.
- RIST surveys (24 completed)



- Public & Members Only Sites
- Lessons Learned & Smart Practices
- Incident Reporting System
- Statistics and Trends
- RIST Reports & Training Packages
- The Hazmat Forum
- Resources, Training, News



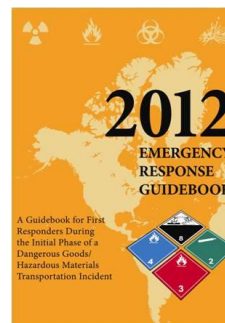
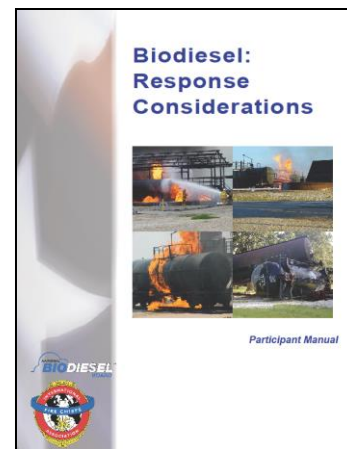
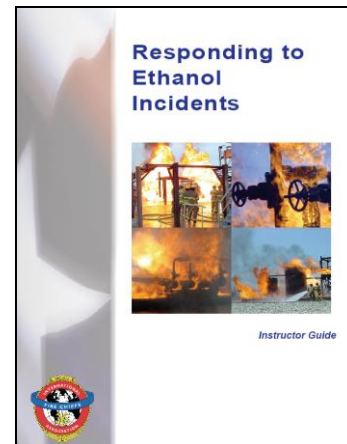
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- 24 surveys conducted nationally
- Executive summaries- public site. Full reports - Members Only
- RIST training packages:
Chlorine, Carbon Monoxide,
Hydrochloric Acid
- Chemical Assisted Suicide
Work Group
- Homemade Explosives Work
Group



- Changing Landscape of Fuels Symposium
- Emergency Response Guidebook Video
- Ethanol: Response Considerations training package
- Biodiesel: Response Considerations training package
- Rural Emergency Response Planning project
- Hazardous Materials Preparedness and Response Symposium



- **Goal**

- To prove the concept of a distance learning approach for training the volunteer first responder community by utilizing the topic of hydrogen initially



Phase One

- Determined current status of hydrogen and hydrogen fuel cell knowledge and training in emergency services
 - Identify gaps
- Evaluated concept of distance learning for hazmat training under pilot subject of hydrogen
 - Approach
- Issued findings and recommendations for Phase Two



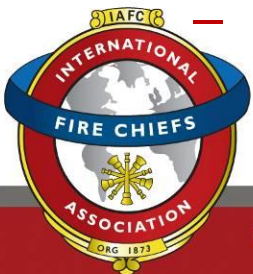
Phase Two

- Built on information gathered in Phase One
 - Partnered with TEEEX to build the online training system
 - Interactive two-hour course on hydrogen
- Performed alpha testing of course
- Conducted initial beta testing
 - Utilized members of volunteer and career fire service community to test course
 - Implemented necessary changes before nationwide release



Phase Three

- National Release of functioning free online course
Hydrogen: Response Considerations
 - Now available at www.responder-elc.org
- Evaluating course effectiveness
 - Developed an evaluative approach through collaboration with state training directors from each PHMSA region
 - Conducting evaluations in 10 states (5 with online training, 5 with no online training)
- Performing outreach for the course
 - Attending conferences and provide outreach materials



- Mapped out NFPA 472 competencies (Phase One)
- Developed content with SME and partners
- Currently, TEEEX is operating the learning management system
- Beta testing (August 2011)
- Implement feedback from beta testing
- National rollout (March 2012)



- Module 1: *Hydrogen's Definition, Relevance, and Use.*
- Module 2: *Hazardous Behavior and Properties of Hydrogen*
- Module 3: *Identifying Hydrogen Presence*
- Module 4: *Appropriate Response to a Hydrogen Incident*



- Scenario based
- Interactive with animation
- Embedded videos
- Repeats key information
- Knowledge checks at the end of each module and course concludes with a cumulative test. Completion certificate issued.



- Free site access at
 - www.responder-elc.org



IAFC

INTERNATIONAL ASSOCIATION OF FIRE CHIEFS

This video was produced by Imageworks for the
U.S. Department of Energy's web-based training course:

Introduction to Hydrogen Safety for First Responders

February 2009



WWW.IAFC.ORG

- Produced 4,000 copies of the course on CD
- Sent 25 copies of the CDs to all pilot state fire training directors
- Sent 5 CDs to all other 40 state fire training directors. Massachusetts training director sent information to 8,000 firefighters in the state. Maine sent info to 800 responders.
- Sent 250 CDs and flyers to the National Fire Academy (NFA). NFA will also help market the course by sending out course information electronically through Training Resources and Data Exchange (TRADE) and newsletters, etc.



- Attended Fire-Rescue International (FRI) Conference in Denver from July 31-August 5
 - Conducted a session highlighting the Hydrogen program to about 50 attendees.
 - Exhibited on the show floor and handed out over 450 copies of the CD and flyer.
 - Briefed IAFC Hazmat Committee and IAFC Division Secretaries on the program.



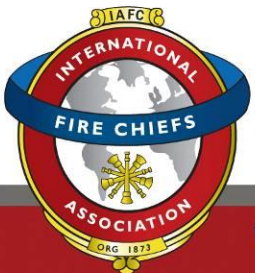
- 4200 registered users. 2837 have fully completed the course to October 3rd
- All 50 states have registered users.
- Averaging 12 new completes a day.
- **Note first 10 days in September 421 registered and 313 completed average 31**



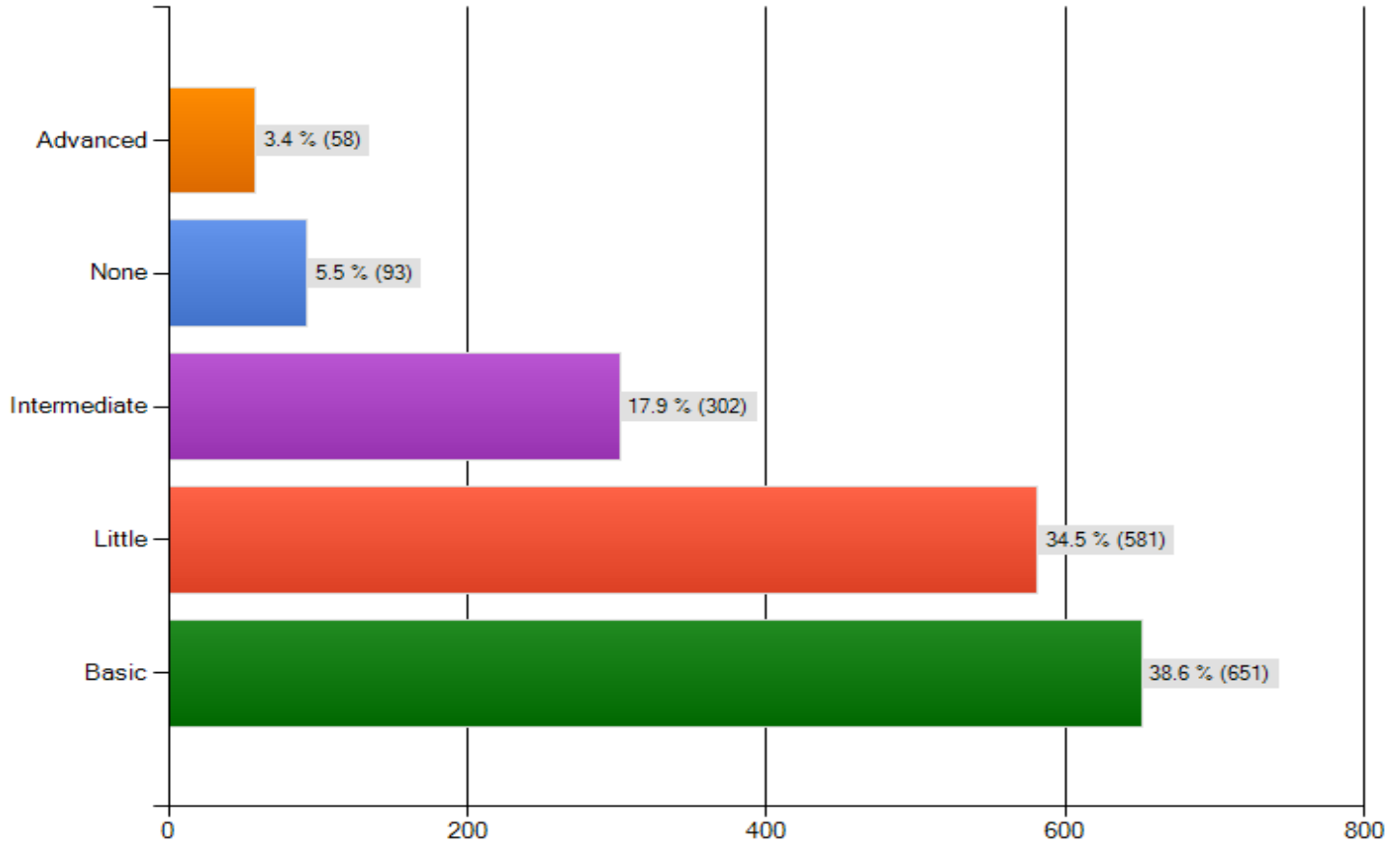
- Visited departments in: Alabama, Maine, Wisconsin, Florida for live evaluation After Action interview. 150 people participated in these after action interviews.
- Sent After Action “Virtual” Interview to all 2665 hydrogen participants as of August 31st.
- Over 281 people have participated in the “Virtual” interview.



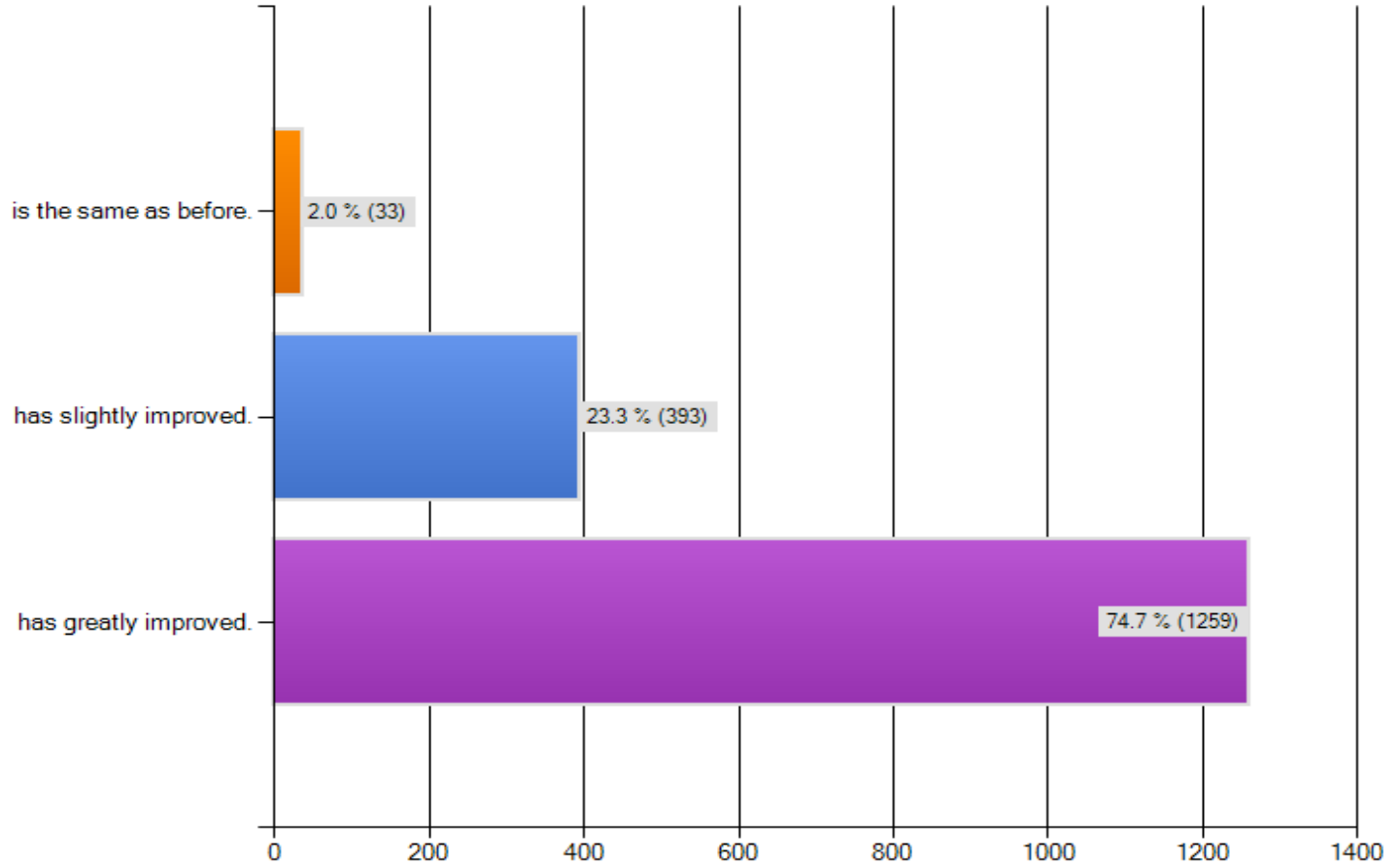
- 1685 responses to post-course questionnaire to date.
- The bottom line is that responders all across America want more and free training.



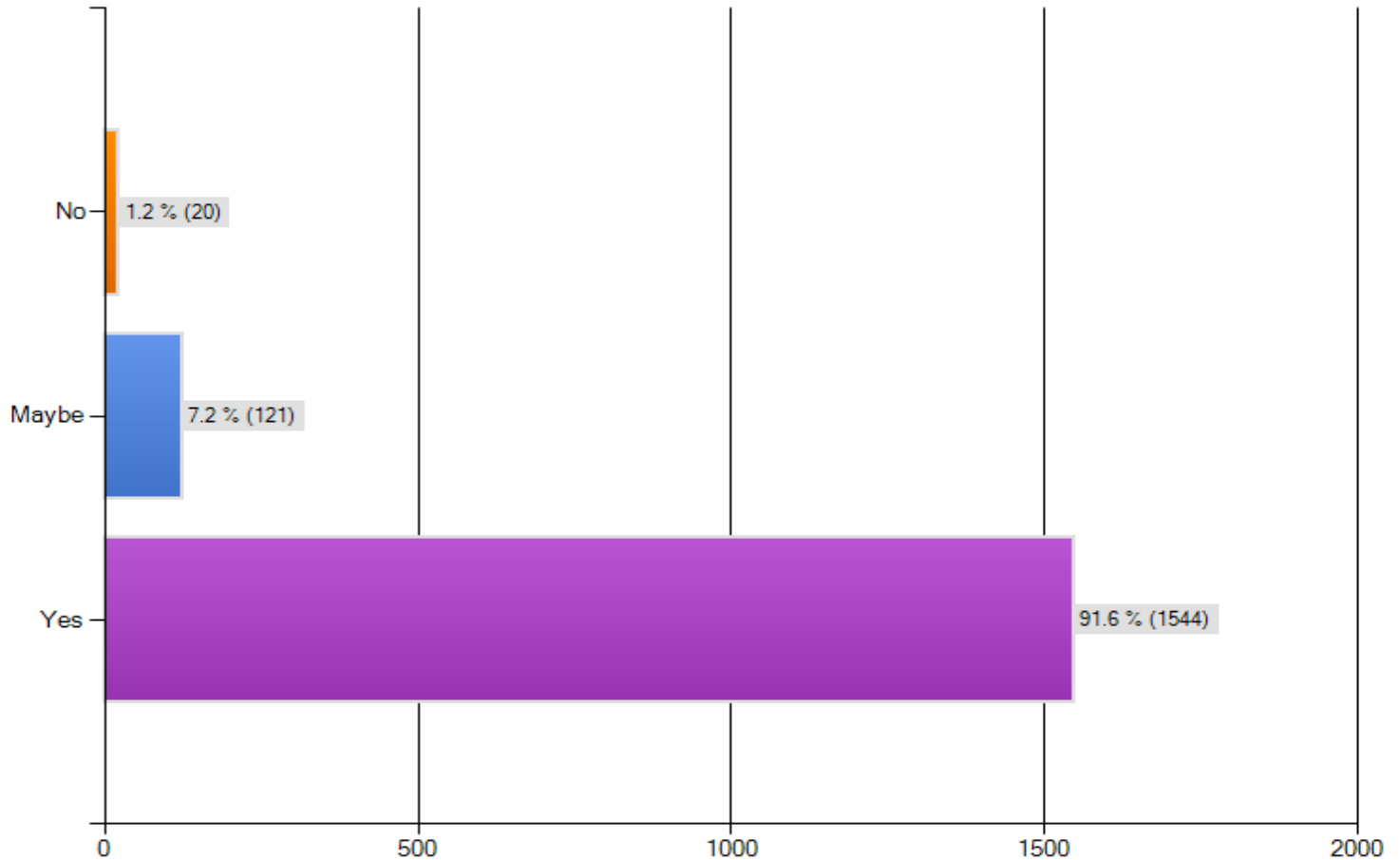
Your knowledge about hydrogen before the course was



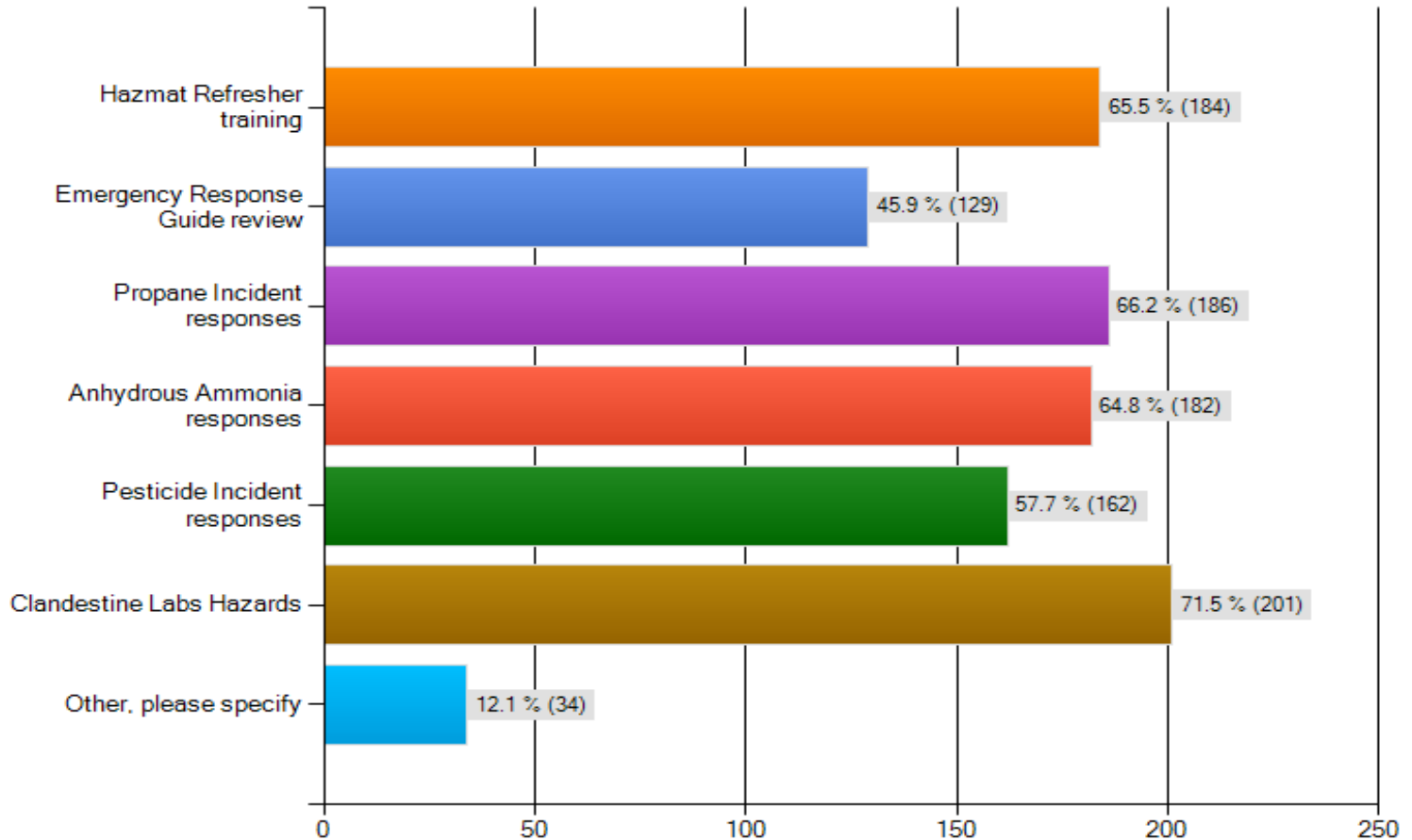
Your knowledge about hydrogen after taking the course



I would utilize this training system to take courses on other hazardous materials topics.



What new HAZARDOUS MATERIALS topics would you like to see offered on the Electronic Learning Community "ELC" site? Choose all that apply.



- Conduct live After Action evaluation in Pennsylvania
- Send CDs to departments with hydrogen in use in their areas
- Compile evaluation results and feedback
- Continue outreach efforts with trade articles, partnerships, etc.



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