



## **Results of NACAA Training Committee Needs Survey**

**December 11, 2012**

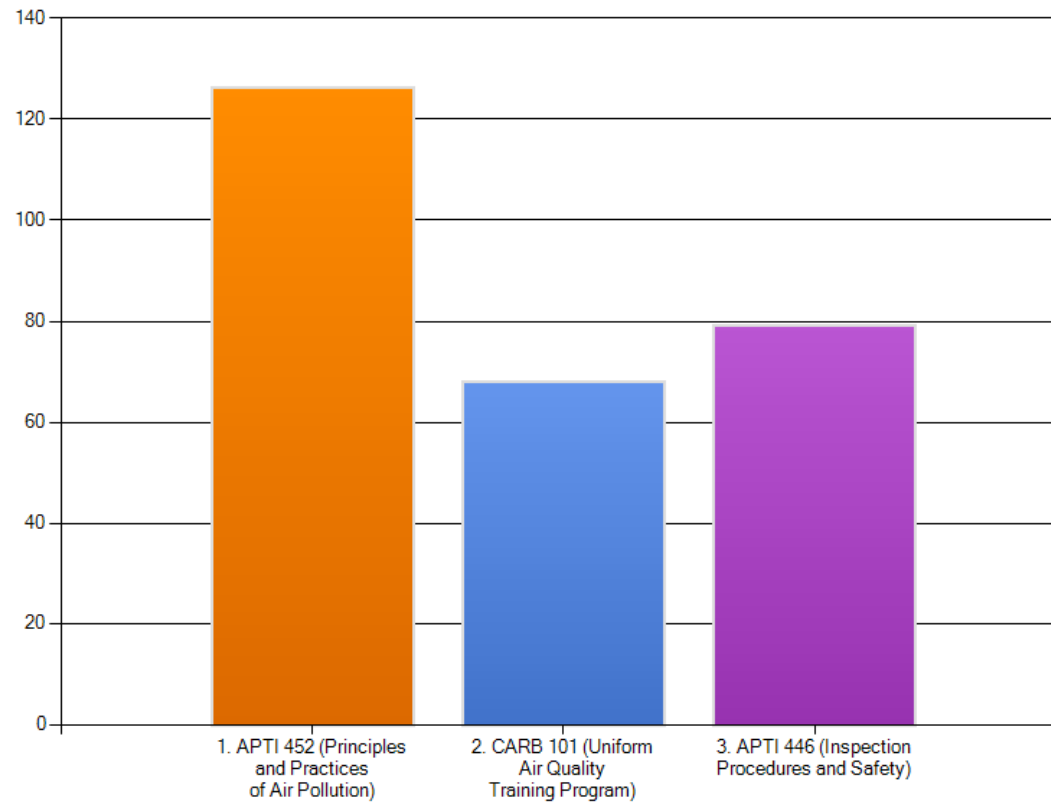
**Amy Royden-Bloom, NACAA**

# Results of 2012 Survey

- ❑ Sent out survey 11/7/12
- ❑ Survey asked respondents to indicate which courses should be offered in calendar years 2013 or 2014 that would “benefit you or your staff”
- ❑ Courses were organized by job category (e.g., ambient monitoring, permitting, inspection and enforcement, etc.)
- ❑ Survey also noted relevant self-instructional (SI) and video courses

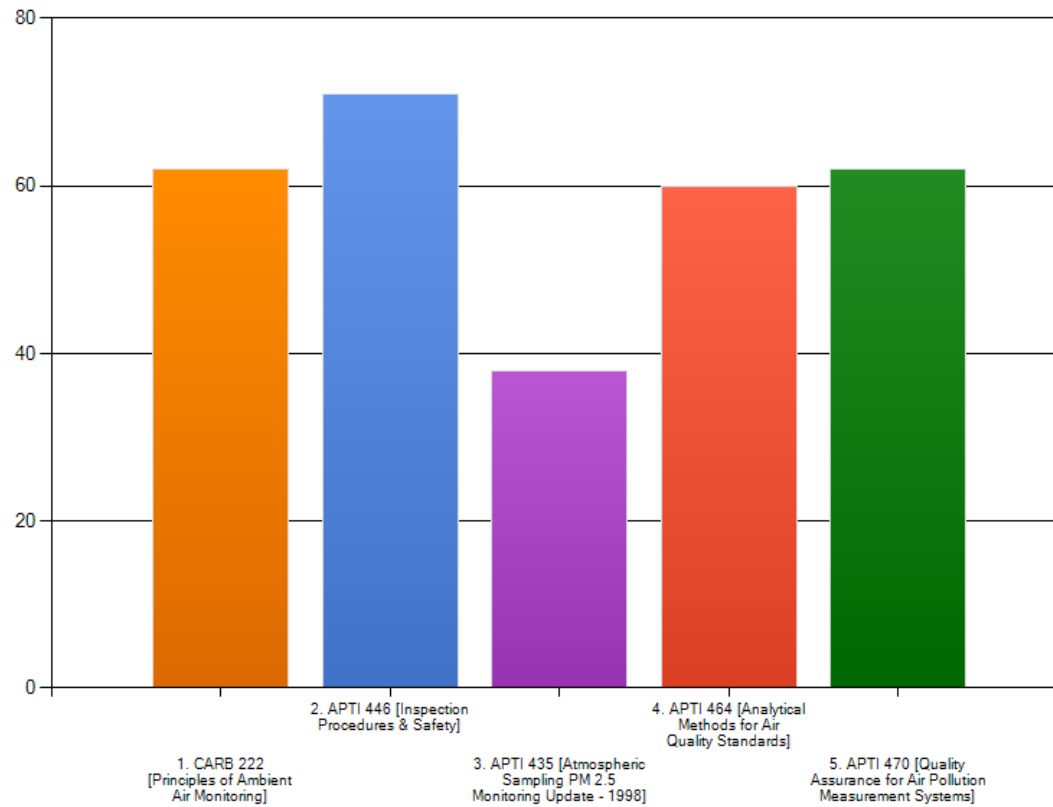
# Results of 2012 Survey

- ❑ 227 respondents
- ❑ 21% of respondents were not aware that there are SI or video courses
- ❑ 86% responded that Internet security or firewall issues would NOT prevent them or anyone in their agency from watching a video stream of a course delivered live online
- ❑ No courses selected for SIP development or climate change because there are no APTI or CARB classroom courses in those subject areas



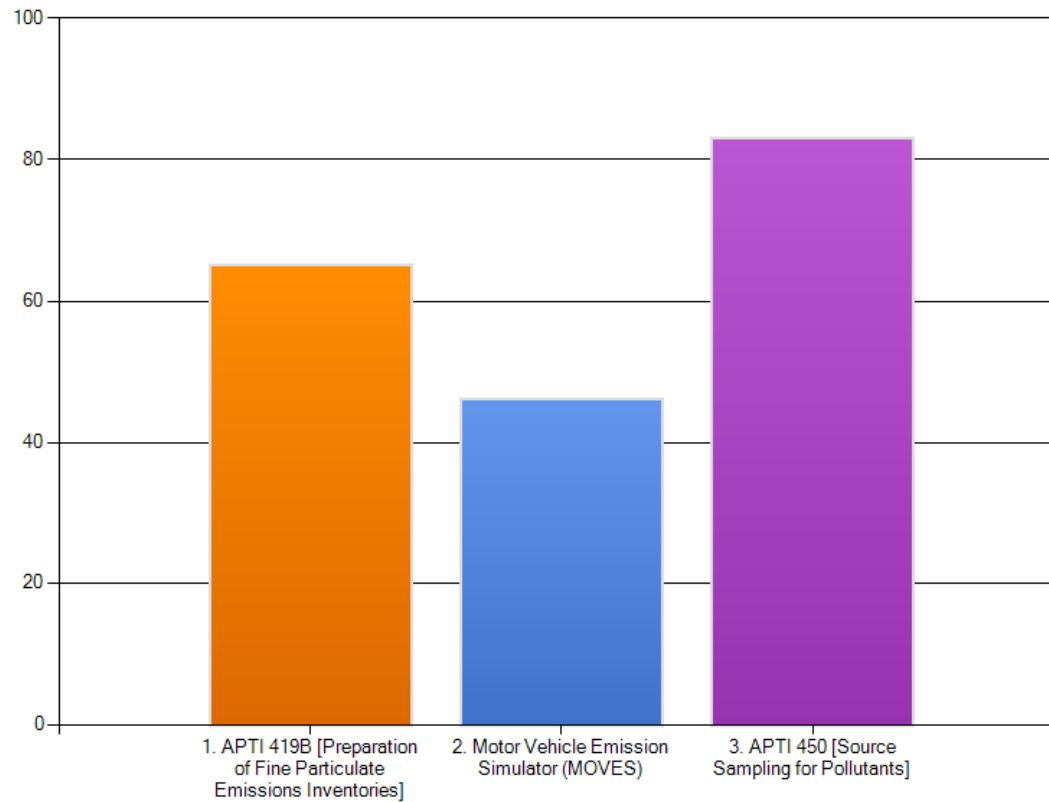
## Introductory Courses

171 responded; 56 skipped question



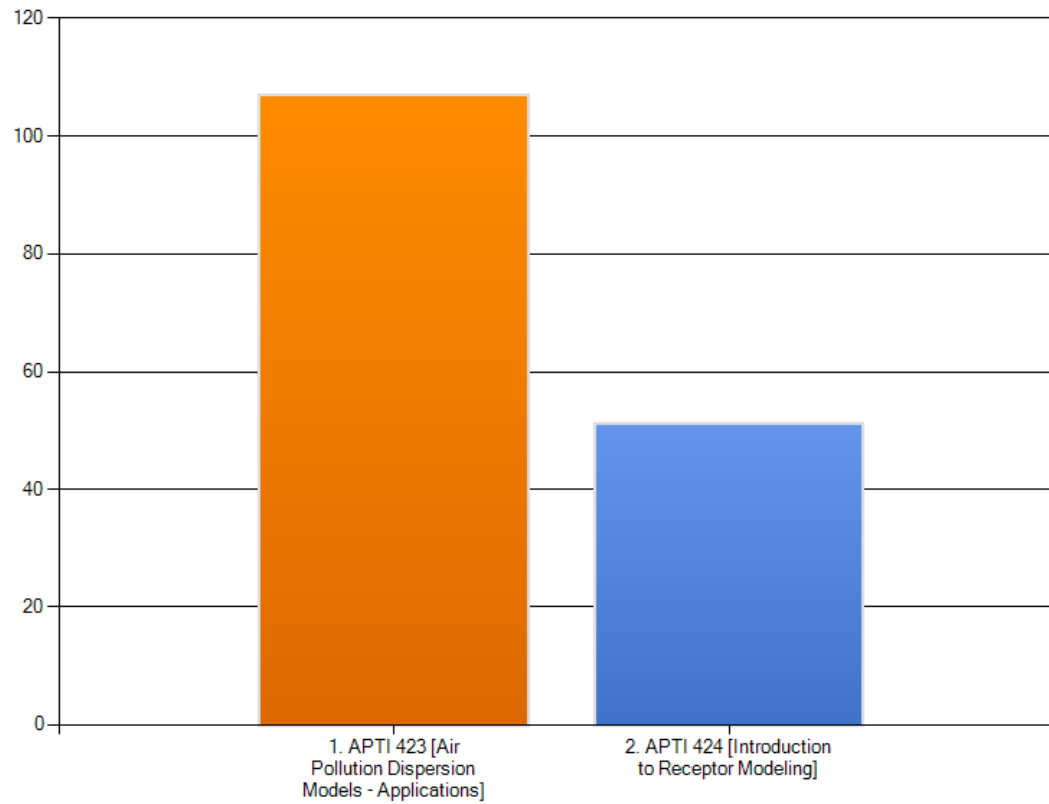
## Ambient Monitoring

147 answered question; 80 skipped. APTI 446 most popular .



## Emissions Estimation and Inventory Development Courses

148 answered; 79 skipped. APTI 450 most popular course.



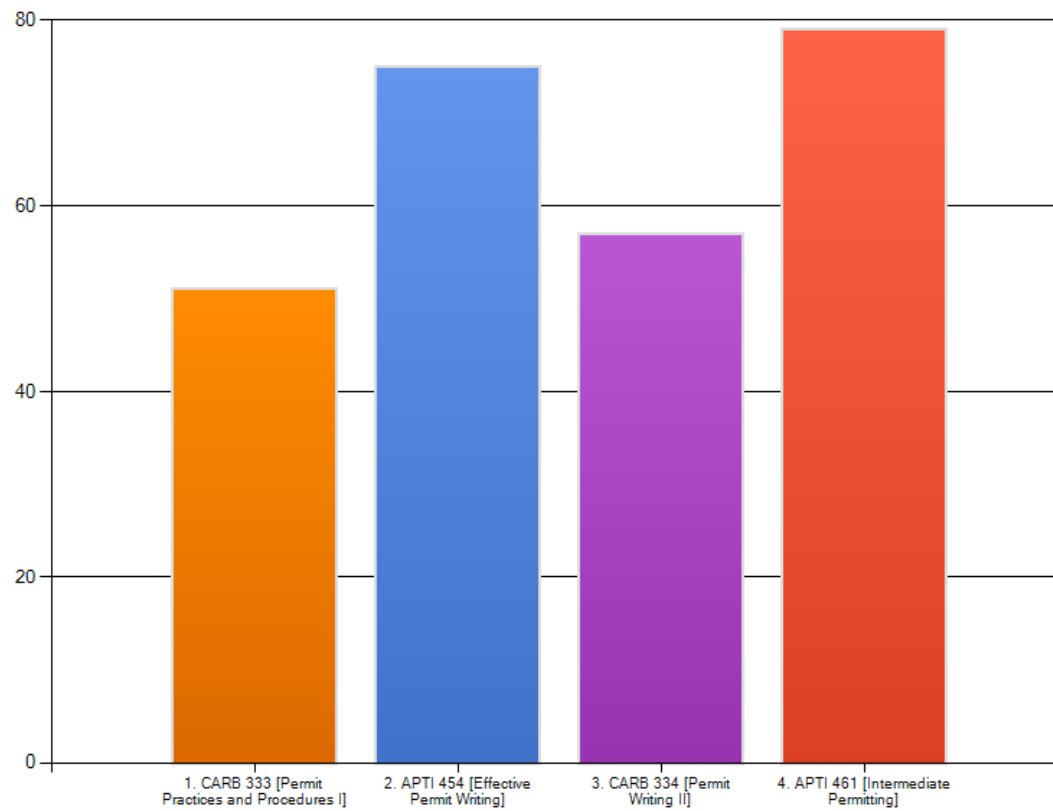
## Modeling, Forecasting and Data Analysis Courses

119 answered question; 108 skipped. APTI 423 overwhelming choice.

# SIP Planning Courses - Comments

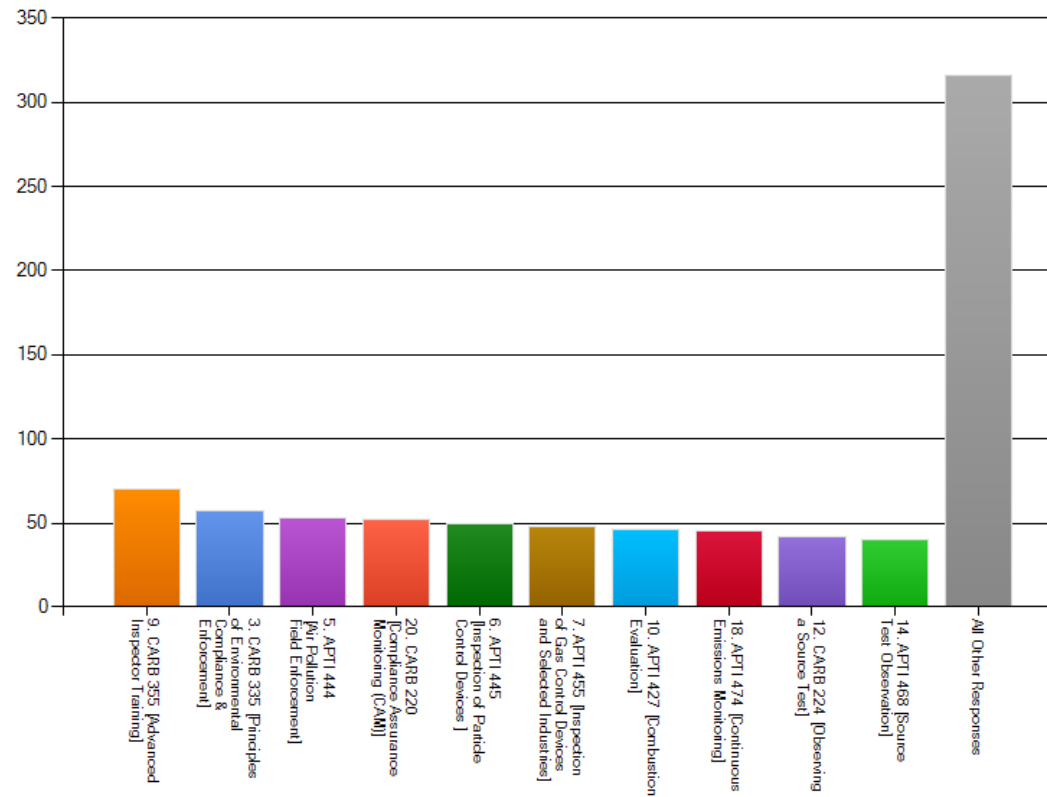
- ❑ “Perhaps a summary of the different types of SIPs, submittal requirements and a survey of different agencies' procedures for SIP submittals would be appropriate.”
- ❑ “It is difficult to create a course to address all these specific planning-related issues.”
- ❑ “There is a great need in courses related to planning/regulation development. Perhaps, NACAA can work with the American Planning Association to develop a course for Air Quality Planners.”





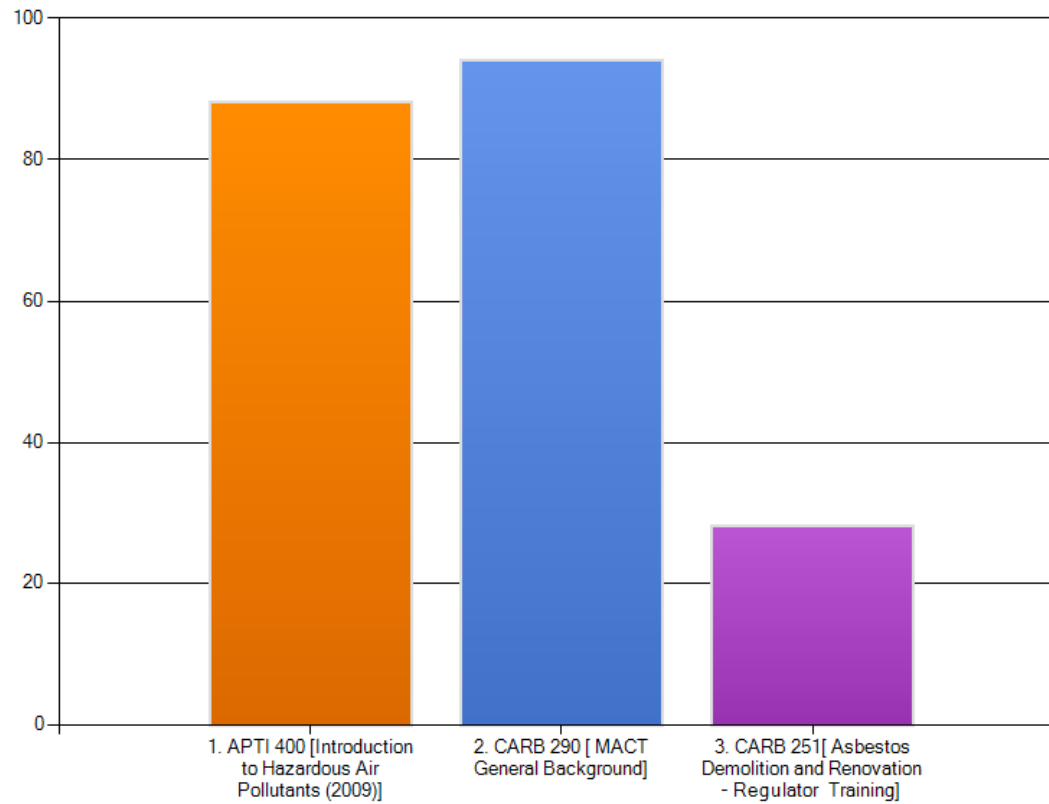
## Permitting

128 responded; 99 skipped. APTI 461 most popular choice.



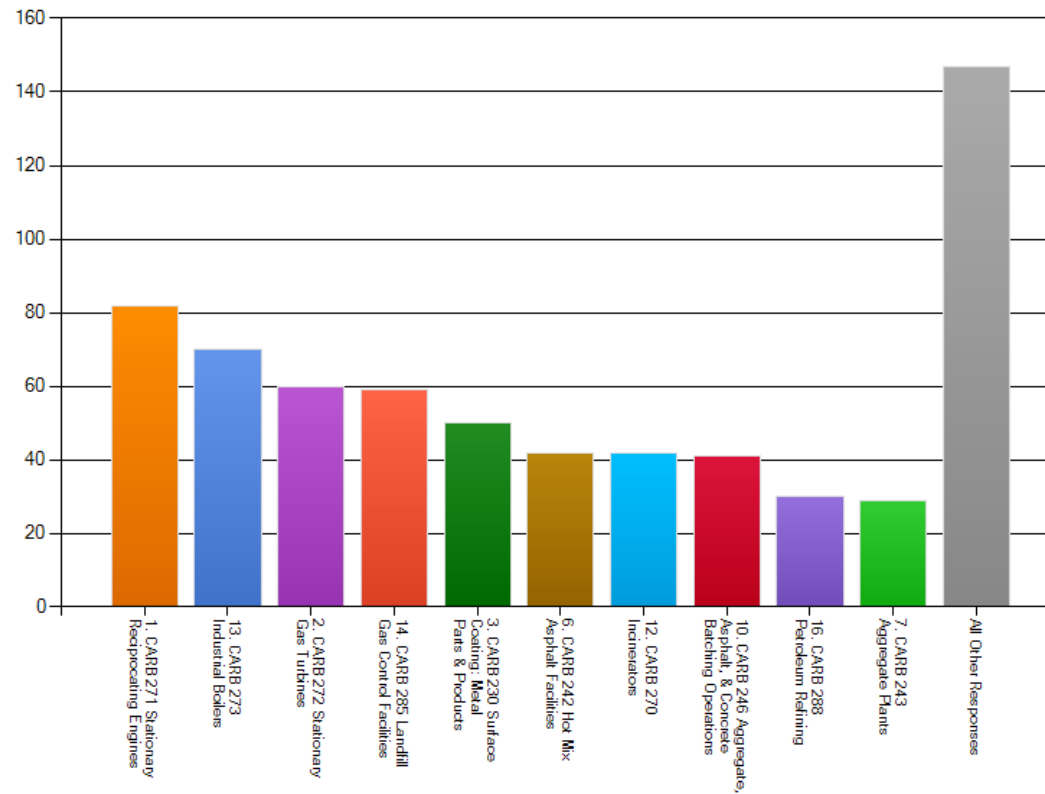
## Enforcement

147 responded; 80 skipped. There were 20 courses to choose from so not all are displayed on the chart.



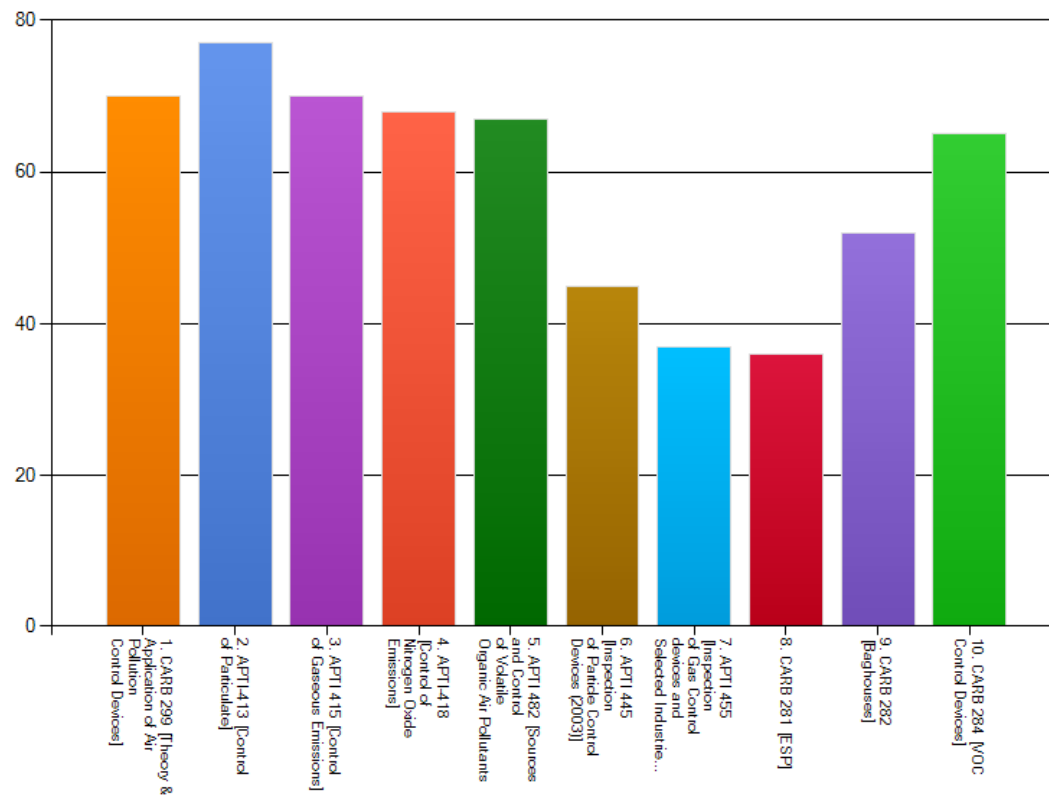
## Hazardous Air Pollutants

146 answered; 81 skipped. CARB 290 top choice.



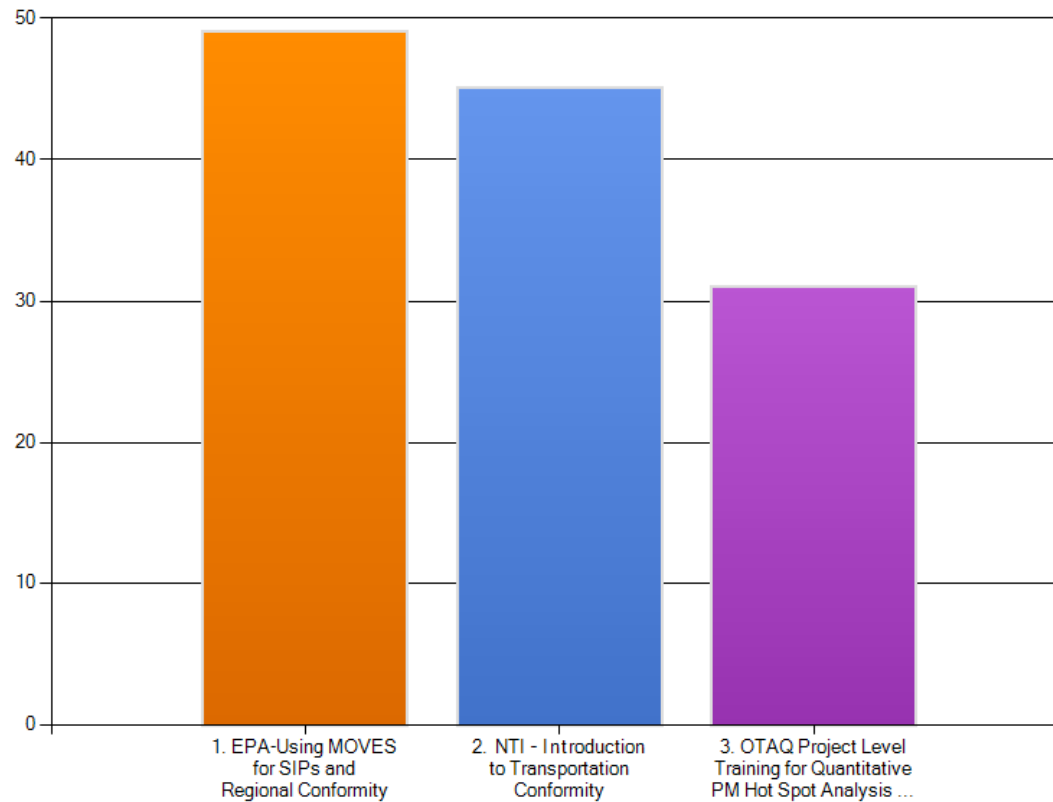
## Stationary Source Specific Training

146 answered; 81 skipped. 16 courses to choose from so only top ones shown on chart.



## Pollution Control Technology

154 answered question; 73 skipped.



## Mobile Sources

74 answered question; 153 skipped. EPA-Using MOVES for SIPs and Regional Conformity the most popular.

# Climate Change

- ❑ There are no classroom courses on climate change
- ❑ “Please provide more classes on Greenhouse Gas Permitting”
- ❑ “Consider adding a GHG/ Criteria Air Pollutant crossover training”
- ❑ “A course should be developed that provides an overview of GHG measurements, Surface Temp., Extreme Weather, Emissions and Emission Factors, Adaptation Plans, Energy Efficiency, Renewable Energy Options, Smart Grid, GHG Rules, Carbon Capture, Carbon Markets, Geoengineering, Impacts on Public Health and Public Perception. Air Quality professionals need to have background in a broad range of topics so that they can explain these topics to the public. Additionally a set of reliable websites for current scientific information would be valuable to keep abreast of emerging topics.”

# Courses to be Updated

- ❑ All courses/any course over [3] [5] [10] years old
- ❑ Source Test Observation How to conduct a Source (stack) Test
- ❑ Boiler Inspection Gas Turbine Inspection
- ❑ Modeling courses
- ❑ APTI 445, APTI 455. It would be helpful to have advanced courses in these areas
- ❑ PSD/NSR
- ❑ Stack testing and CEMS
- ❑ APTI SI-474 Introduction to Environmental Statistics
- ❑ Source Sampling courses
- ❑ Air Dispersion Modeling



# New Courses to be Developed

- ❑ 56 responses
- ❑ Responses, organized by subject matter, posted at:
  - ◆ <http://www.4cleanair.org/Documents/RecommendationsforNewCourses.pdf>
- ❑ Lots of requests for GHG-related courses, courses related to SIP planning, air toxics, permitting/NSR and industry-specific courses (e.g., oil and gas)