Course Outline for:
Gas Detection
Equipment, Toxicology & Atmospheric Testing

Course number: ES00-04

Course Length:
4 hours, 1 Day

Pre-requisites:
None

Course Record:
Basic gas detection equipment, toxicology and atmospheric testing. Developed by Envirosafety Confined Space Equipment Inc., ©2005-2010

Texts and Equipment:

Required:
Atmospheric monitor, Calibration equipment.

Recommended:
Confined space entry program, gas testing forms, entry permit.

Provided:
Course workbook, handouts, exercises, exams, pens, wallet certificates, hard hat sticker certificates. Employer will receive copies of all participants' certificates within 24 hours of course completion.

Course Description and Goals:
This course is intended for any personnel that will be entering, working in, providing stand-by for or monitoring confined spaces. This course gives the participant the information required to understand units of measure, sensor technology, sensor response and calibration, principals of gasses and principals of atmospheric testing. In cases where a calibration station is utilized by workers, training on the calibration station is added to the course content. The outcome will leave the student with a clear understanding of how to accurately detect hazardous gasses using a portable gas detector, how to read and understand what the detector is indicating, and how to respond to the reading in order to maintain worker safety. This course is one component of a confined space training program and when taken by itself is not designed to provide the skills needed to enter a confined space.

Method of course delivery:

30% Lecture & Discussions
30% Demonstration
40% Student Exercises

Student/instructor ratio- 1 instructors per 12 students

Evaluation:

45% Written Test
10% Participation
45% Demonstration of physical proficiency

Course Learning Outcomes:

Upon successful completion of this course, the Participant will be able to:

- Explain the WCB requirements for confined space verification and testing.
- Understand the units of measure used in gas detection.
- Determine risks associated with confined space atmospheres.
- Understand sensor technology and sensor limitations.
- Demonstrate sensor response verification & Calibration.
- Demonstrate correct use of a confined space gas detector.
- Explain atmospheric testing principals and safe work procedures.
- Demonstrate effective atmospheric testing (of confined spaces when available).

Course Policies and Information

Exams:

The minimum score to receive a "pass" in an exam or course is 70%. If a student fails an exam, they may apply for one opportunity to re-write the exam. The student must arrange to take the re-write exam within thirty days of the original exam. Re-write exams will be of a similar nature, scope and content to the original exam, but with new examinable content.

Practical Exams:

Gas testing and entry are high skill endeavours and many of the examinations will be practical. A student must show individual proficiency in all required competencies to receive a "pass".

#

#