



## Gas Detection & Control Detailed Course Outline

### Chapter 1:

- Importance of Safety Training
- Hazard Assessment, Control & Elimination
- The Value of Life
- Communicating & Training
- Due diligence
- Documentation
- Competent person
- Attitude
- Culture

### Chapter 2:

- Legislation
- Personal Protective Equipment
- What Hazards Do We Need To Test For?
- Oxygen Deficient/Enrichment
- Combustible/Flammable/Explosive
- Gases/Vapors/Fluids/Mists
- Explosive Gases
- Toxic Gases

### Chapter 3:

- Manual VS Electronic Gas Devices
- Manual Systems
- Electronic Monitors
- Power Source
- Electronics
- Visual Displays
- Alarm Systems
- Sensors
- Personal Devices VS Testing Devices?
- Placement
- Types of Testing Devices

### Chapter 4:

- Units of Measure for Gases
- Atmospheric Testing Requirements
- Testing For Hazards in a Confined Space
- Where to Locate Sensors
- How Often Do Sensors Need To Be Calibrated?
- Maintenance of Gas Monitors

### Chapter 5:

- Potential Hazards and Suggested Controls
- Testing Strategies
- Record Keeping For Gas Testing

### Practical Portion

Every student will:

- Work with a monitor
- Read the manufacturer's operating manual pertinent to the monitor
- Do a bump test using the manufacturer's operating manual
- Demonstrate ability to find peaks using the manufacturer's operating manual
- Record their findings on the form provided

