Control of Gaseous Emissions: Proposed Agenda

December 1-3, 2026 | Online Only | All Times PST

December 1: 9:00 AM – 4:00 PM

Introduction

Basic Concepts

- Gas Properties
- Ideal Gas Law
- Standard Conditions
- Flammable Range
- Capture vs. Control

Pollutants

- National Ambient Air Quality Standards Gaseous Pollutants
- Other Gaseous Pollutants
- Regulations
- Air Pollution Controls

Control – Oxidation

- Principles of Operation
- Types of Controls
- Parametric Monitoring
- Operating Problems
- Inspection Parameters

December 2: 9:00 AM – 4:00 PM

Control – Condensation

- Principles of Operation
- Types of Controls
- Parametric Monitoring
- Operating Problems
- Inspection Parameters

Control – Absorption (Wet Scrubber)

- Principles of Operation
- Types of Controls
- Parametric Monitoring
- Operating Problems
- Inspection Parameters

Control – Adsorption (Dry Scrubber)

- Principles of Operation
- Types of Controls
- Parametric Monitoring
- Operating Problems
- Inspection Parameters

December 3: 9:00 AM – 4:00 PM

Control – NO_X

- Principles of Operation
- Types of Controls
- Parametric Monitoring
- Operating Problems
- Inspection Parameters

Control – SO_2

- Principles of Operation
- Types of Controls
- Parametric Monitoring
- Operating Problems
- Inspection Parameters

Control – Greenhouse Gases

- Principles of Operation
- Types of Controls
- Parametric Monitoring
- Operating Problems
- Inspection Parameters

Control of Gaseous Emissions

Class Length: 24 hours (3 days)

Who Should Attend

This is an introductory course designed for agency inspectors, permit writers, and regulation developers who have responsibility for sources emitting carbon monoxide, carbon dioxide, nitrogen oxides, sulfur dioxide, and volatile organic compounds. The course will discuss the pollutants and associated air pollution controls.

Learning Objectives

This course is designed to give attendees a basic understanding of the controls for sources emitting carbon monoxide, carbon dioxide, nitrogen oxides, sulfur dioxide, and volatile organic compounds. Course topics include:

- Gaseous pollutants and their impacts
- Control devices for gaseous pollutants
- Compliance parameters

Instructor Bio

Andrew D. Shroads, QEP has over 27 years of experience in air pollution control, working in the Weirton Steel Corporation Environmental Control Department, as an inspector for the Cleveland Division of Air Quality, and as a consultant for regulatory agencies and private clients. He helps local, state, tribal, and federal government agencies develop air pollution control requirements and helps industry comply with air pollution permit and regulatory requirements. He is currently working as a part-time environmental manager for a manufacturing facility in Ohio, developing air pollution control requirements for the state of New Jersey, assisting tribes to develop air permitting programs, and assessing the environmental impacts from federal sites. He also develops and teaches air pollution training programs. In his spare time, he researches the history of managing environmental resources.

Login Information

https://www.zoomgov.com/j/1610374629?pwd=XwTe5OPjW2eqAVeM5AQk4ljm93QzJn.1
Meeting ID: 161 037 4629
Passcode: 937827
Use the same login information for all class days.