This two day course is aimed at the new, entry-level as well as semi-experienced stationary source inspectors, permit engineers, regulatory agency staff, and environmental specialists in business and government. This course will provide a detailed introduction to air pollution control equipment and methods used to control particulate and gaseous air emissions. The course will cover theory, operation, applications, design considerations, inspection strategies, compliance assurance monitoring and regulations for cyclones, baghouses, wet and dry scrubbers, electrostatic precipitators, carbon beds, bio filters, condensers, flares, thermal and catalytic oxidizers. NOx controls like selective catalytic reduction (SCR), selective non-catalytic reduction (SNCR), flue gas recirculation (FGR), and ultra low-NOx burners will also be discussed. THIS COURSE WILL INCLUDE A FIELD TRIP.

**Tentative Agenda**

**Day 1**

- **Power Plant Emission Control Equipment**

  - 8:30 Introductions
  - 8:45 Introduction to Control of Air Pollution
  - 9:00 Control of Power Plant Emissions - CO Catalysts
  - 9:30 Control of Oxides of Nitrogen (NOx)
  - 10:00 Break
  - 10:15 NOx Controls
  - 11:15 Break
  - 11:30 Control of Particulate Emissions and Ammonia Slip
  - 12:00 Lunch

**Control of Volatile Organic Compound**

- 1:00 Introduction to VOCs and HAPs
- 1:15 Introduction to VOC Control
- 1:30 Material Usage Minimization and Waste Containment
- 1:45 Absorption
- 2:00 Break
- 2:45 Absorption and Adsorption
- 3:15 Break
- 3:30 Capture & Destroy -- Capturing Emissions & Oxidation
- 5:00 Adjourn

**Day 2**

- **Control of Particulate Emissions**

  - 8:30 Introduction to Control of PM
  - 8:45 Cyclones and Baghouses
  - 9:30 Baghouses and Electrostatic Precipitators
  - 10:00 Break
  - 10:15 ESPs and Scrubbers
  - 11:00 Break
  - 11:15 Particulate Filters and Gas-Fired IC Engine Controls
  - 12:00 Lunch
  - 1:00 Plant Visit
  - 4:30 Questions, Course Exam and Review