



**Western States Air Resources Council  
(WESTAR Council) &  
New Solutions Training Program**

**August 22-25, 2023**

**Training Location**

**Washoe County Health District  
Conference Rooms A&B  
1001 E. Ninth Street, Building B  
Reno, Nevada 89512**

**Compliance Assurance Monitoring (PERM204)**

Tuesday, August 22  
8:30 am – 5:00 pm

**Incinerators (TOXC222)**

Wednesday, August 23  
8:30 am – 5:00 pm  
\*w/site visit

**Theory & Application of Common  
Air Pollution Control Devices (BASC107)**

Thursday, August 24 – Friday, August 25  
8:30 am – 5:00 pm  
\*w/site visit

**Registration Deadline: Friday, July 28, 2023**

**\*Field visits and an exam are required for completion of each course. All students must have proper safety equipment, including hard hat, safety shoes, earplugs, and eye protection.**

For more information, please contact: Jeff Gabler, Training Mgr - (503) 744-0486 or [jgabler@westar.org](mailto:jgabler@westar.org)

## **Compliance Assurance Monitoring (PERM204):**

Course Description: Those completing this course will gain a basic understanding of the general information associated with compliance assurance monitoring. CAM concepts like background, 40 CFR part 64 (CAM) applicability, who will be affected by CAM, who is exempt from CAM, CAM timing, monitoring design criteria, frequency of monitoring, source, District & EPA roles in evaluating CAM plans, quality improvement plans will be discussed in this course.

Attendees will be able to perform regulatory reviews involving the following elements of CAM:

- Effect of Title V
- Background of CAM
- Part 64 applicability
- Exception
- CAM monitoring design criteria
- Source, district, and EPA Roles
- Quality Improvement plan

Target Audience: This course is intended for entry-level staff.

## **Incinerators (TOXC220):**

Course Description: This course will focus on the process, emission control equipment and inspection procedures of small to medium sized solid waste incinerators. The types of incinerators include biomedical, pathological, crematories and commercial heat stripping ovens. This course does not address municipal waste combustors, biomass or hazardous waste incinerators. There is an afternoon field visit where students will receive first-hand experience during a mock inspection of a local business

The following topics will be covered in this course:

- 3 T's of combustion
- Types of combustion
- Categories of Industrial Incinerators
- Typical Incinerator Operating Procedures
- Typical Operational Errors
- Incinerator Emissions & Control
- Incinerator Inspection
- Air Pollution Control Points of Inspection

Target Audience: This course is intended for entry-level staff.

## **Theory & Application of Common Air Pollution Control Devices (BASC107):**

Course Description: 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.

Target Audience: This course is intended for entry-level staff.

## REGISTRATION INSTRUCTIONS:

1. Log onto EPA's AirKnowledge and create a profile, or log onto your existing AirKnowledge account.  
<https://epaapti.csod.com/client/epaapti/default.aspx>
2. When you complete your profile, you will receive a confirmation e-mail to activate your new account. It may take several minutes before receiving the email.
3. Once activated, log into your account.
4. Click the "Instructor Lead Training Calendar" link under the "My Training" tab.
5. Search the calendar for the training date(s). On the calendar you will see a course description. Hover over the text for additional information.
6. To register click the course title link.
7. In the lower righthand corner of the page you will see a "Request" button. Click it.
8. At this point you have requested a seat in the training. Because demand for WESTAR sponsored training frequently exceeds availability all registrants are placed on a waitlist.
9. You will receive an email from [Jeff Gabler](#) confirming your request.
10. WESTAR attempts to accommodate all requests but at times it may be necessary to prioritize attendees.

## ACCESSIBILITY:

WESTAR strives to host inclusive, accessible training events that enable all individuals, including individuals with disabilities, to engage fully with the instructor and course content. To request an accommodation or for inquiries about accessibility, please contact Jeff Gabler at [jgabler@westar.org](mailto:jgabler@westar.org) or 503-744-0486 by Friday, June 11, 2023.



## Compliance Assurance Monitoring (PERM204) Tuesday, August 22, 2023

### Tentative Agenda

- 8:30 Introductions & Course Overview
- 8:45 CAM Background, Purpose, Rule History, Principles, & Design Criteria
- 9:45 Emissions, Mass Balance Calculations, and Pre-Control PTE
- 10:00 Break
- 10:15 Affected Sources, New Concepts, Control Devices
- 11:00 Monitoring – Design Criteria, Frequency & Indicator Levels of Confidence
- 11:15 Role of the Source – Monitoring Approach & Design Criteria
- 12:00 Lunch (on your own)
- 1:00 Design Evaluation Factors, Recordkeeping & Reporting
- 1:30 QIP, Status of Compliance, Compliance Certification
- 2:00 Break
- 2:15 Role of Permitting Authority – Agency & EPA Roles
- 3:15 Monitoring Approaches & Limitations of Selected Control Devices
- 4:15 Enforcement & Enforcement Authority
- 4:30 Questions, Review & Course Examination
- 5:00 Adjourn



## Incinerators (TOXC222) Wednesday, August 23, 2023

### Tentative Agenda

- 8:30 Introduction/Background/Applications
- 9:00 Incinerator Theory
- 9:30 Types of Incinerators
- 10:00 Break
- 10:15 Emissions from Incinerators
- 10:45 Emission Control Methods
- 11:30 Regulations
  - Definitions
  - Exemptions
  - Emission Standards
- 12:00 Lunch (on your own)
- 1:00 Inspector Safety
- 2:00 Site Visit
- 4:30 Questions, Review & Course Examination
- 5:00 Adjourn



**Theory & Application of Common Air Pollution  
Control Devices (BASC107)  
Thursday, August 24 – Friday, August 25, 2023**

Tentative Agenda

Thursday, August 24

- 8:30 Introductions & Welcomes
- 8:45 Introduction to Control of Air Pollution  
Power Plant Emissions
- 9:00 Control of Power Plant Emissions – CO Catalysts
- 9:30 Control of Oxides of Nitrogen (NO<sub>x</sub>)
- 10:00 Break
- 10:15 Control of Oxides of Nitrogen (NO<sub>x</sub>) – *cont'd*
- 11:30 Control of Particulate Emissions & Ammonia Slip
- 12:00 Lunch (on your own)  
Control of Volatile Organic Compounds (VOC)
- 1:00 Introduction to VOC and HAP
- 1:15 Introduction to VOC Control
- 1:30 Material Usage Minimization & Waste Containment
- 1:45 Absorption
- 2:00 Break
- 2:15 Adsorption and Desorption
- 3:30 Capture & Destroy – Capturing Emissions & Oxidation
- 5:00 Adjourn

Friday, August 25

- Control of Particulate Matter Emissions
- 8:30 Introduction to Control of Particulate Matter
- 8:45 Cyclones & Baghouses
- 9:30 Baghouses & Electrostatic Precipitators (ESP)
- 10:00 Break
- 10:15 ESP and Scrubbers
- 11:15 Particulate Filters and Gas-Fired IC Engine Controls
- 12:00 Lunch (on your own)
- 1:00 Site Visit
- 4:30 Course Review and Post-Test