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##### Western States Air Resources Council

**(WESTAR Council) &**

**New Solutions Training Program**

**July 23-26, 2024**

***Training Location***

**State of Montana DEQ**

1371 Rimtop Drive

Billings, MT 59105

Phone: 406-247-4445

**Petroleum Refining (TOXC231)**

Tuesday, July 23 and Wednesday, July 24, 2024

8:30 am – 5:00 pm

\*w/site visit

**Industrial Boilers (TOXC226)**

Thursday, July 25, 2024

8:30 am – 5:00 pm

\*w/site visit

**Volatile Organic Compound (VOC) Control Devices (TOXC106)**

Friday, July 26, June 2024

8:30 am – 5:00 pm

\*w/site visit

Registration Deadline: Friday, June 21, 2024

\*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**

**PETROLEUM REFINING (TOXC231)**

**COURSE DESCRIPTION**: This basic two-day course focuses on air quality and oil and gas facilities, and intended for permit engineers, compliance engineers, and inspectors.

The course is designed to provide an overview of Petroleum Refining. The initial section of this course will introduce participants to the terminology, basic chemistry, and process related emissions common to petroleum refineries.  Participants will also be introduced to the many New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAPs) and other air quality regulatory program requirements potentially applicable to a Petroleum Refinery.  This discussion will include the air pollutants of concern and common techniques.  The remainder of the course will focus on the four steps in the refining process – separation, treatment, conversion and blending.  In addition, emissions and the control of air pollutants associated with supporting activities (such as waste water collection and treatment, tank farms, and safety flares) will be discussed.

**INDUSTRIAL BOILERS (TOXC226)**

**COURSE DESCRIPTION**: Those completing this course will gain a basic understanding of the general information associated with industrial boiler operations Attendees will be able to perform regulatory reviews involving the following elements of industrial boilers:

* Air Pollution – Why
* Boiler Uses
* Boiler Theory and Operation
* Air Pollution Formation
* Air Pollution Control Devices
* Boiler Regulations
* Typical Permit Conditions
* Inspection Procedures

**VOLATILE ORGANIC COMPOUNDS CONTROL DEVICES (TOXC106)**

**COURSE DESCRIPTION**: Those completing this course will gain a basic understanding of the general information associated with volatile organic compound control devices. Attendees will be able to perform regulatory reviews involving the following elements of gaseous emissions control: The following topics will be covered in this course:

* Absorbers
* Adsorbers
* Condensers
* Oxidizers
* Process descriptions
* Rule discussion
* Inspection procedures

**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>

1. 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.
2. Once activated, log into your account.
3. Click the “Instructor Lead Training Calendar” link under the “My Training” tab.
4. Search the calendar for the training date(s). On the calendar you will see a course description. Hover over the text for additional information.
5. To register click the course title link.
6. In the lower righthand corner of the page you will see a “Request” button. Click it.
7. 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.
8. You will receive an email from Jeff Gabler confirming your request.
9. 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 or 503-744-0486 by Friday, June 21, 2024.

**PETROLEUM REFINERY (TOXC231)**

**Tuesday, July 23 – Wednesday, July 24, 2024**

**Tentative Agenda**

TUESDAY, JULY 23, 2024

8:30 am Introductions/Course Overview/Video

9:30 am Nomenclature & Heaters

10:30 am Combustion & Controls

11:30 am Other Equipment

12:00 noon Lunch (on your own)

1:00 pm Other Equipment (*continued*)

2:00 pm Petroleum Refining Processes (Separation & Treatment)

 Crude Distillation

 Gas Separation

 Video

5:00 pm Adjourn

WEDNESDAY, JULY 24, 2024

8:30 am Processes

 H2S Removal

 Hydrotreating

 Hydrogen Manufacturing

9:30 am Petroleum Refining Processes (Conversion & Blending)

 Processes

 Alkylation

 Fluid Catalytic Cracking

10:30 am Processes

 Hydrocracker

 Coker

11:30 am Blending & Treating

12:00 noon Lunch (on your own)

1:00 pm Regulations

 ESP Explosion Video

 Fugitives & Inspections

2:00 pm Site Visit

5:00 pm Adjourn

**Industrial Boilers (TOXC226)**

**Thursday, July 25, 2024**

**Tentative Agenda**

8:30 am Introduction/Course Overview/Pre-Test

9:00 am Boiler Uses, Terminology, and Boiler Types

9:30 am Theory & Operation of Boilers

10:00 am Break

10:15 am Boiler Components & Designs

11:00 am Emissions and Control Techniques

12:00 noon Lunch (on your own)

1:00 pm Boiler Regulations & Permits

1:30 pm Monitoring, Source Testing, Inspections, and Safety

2:00 pm Site Visit

4:30 pm Questions, Review & Course Examination

5:00 pm Adjourn

**VOC Control Devices (TOXC106)**

**Friday, July 26, 2024**

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# Tentative Agenda

 8:30 Introduction, Course Overview, & Pre-Test

 8:45 VOC Calculations

 9:00 Capture, Control, Containment & Prevention

 9:15 Adsorption

 9:45 Absorption

 10:00 Break

 10:15 Condensation Devices

 10:30 Oxidation Devices

11:30 Scrubbers

11:45 Inspection Techniques

 12:00 Lunch (on your own)

 1:00 Site Visit

 5:00 Adjourn