

# WESTAR Council

## Combustion Evaluation (APTI 427)

December 5-7, 2018

State of New Mexico  
Toney Anaya Building  
Rio Grande Conference Room  
2550 Cerrillos Road  
Santa Fe, NM 87505

Registration Deadline: Friday, November 16, 2018



## REGISTRATION INSTRUCTIONS:

### First Time Users:

Please go to: [www.apti-learn.net](http://www.apti-learn.net) and follow the below steps:

1. Click on the "First time user? Click here to register" link in the upper right-hand corner of the webpage;
2. First screen requires: 1) work email address; 2) first and last names; 3) password; and 4) security question;
3. Second screen asks about affiliation/agency. There are two options for filling out this section:
  - Agency Quick Search, or;
  - Affiliation/Agency
4. Third screen includes a list of job functions and other profile information. You can click as many (or few) job functions as appropriate. Once you have completed this third screen, you are done setting up your profile.

### After completing the profile:

5. Click the "Register" tab on the left side, or the "Register" bubble in the middle of the page;
6. Scroll down the 2018 Training Calendar until you see training course that you are interested in registering for;
7. On the right side of the table you will see a "register" link;
8. Click the "register" link (be patient it takes a few seconds for the confirmation note to pop-up);
9. You will receive an automatically generated email saying that you have been placed on a waiting list (this is so unapproved attendees can be weeded out).
10. Once approved, you will receive a second email saying you are enrolled.

### Previously Registered Users ([www.APTI-Learn.net](http://www.APTI-Learn.net)):

1. Enter email address and password in appropriate spaces;
2. Go to step 5 (above) and follow directions.

*IF YOU NEED ASSISTANCE REGISTERING FOR THE COURSE PLEASE CONTACT: JEFF GABLER (503) 478-4955 or [JGABLER@WESTAR.ORG](mailto:JGABLER@WESTAR.ORG)*

## WEDNESDAY, DECEMBER 5, 2018

8:00	am	Welcome/Pre-Test
9:00	am	Introduction to Combustion Source Evaluation
10:00	am	Combustion I: Basic Concepts
11:00	am	Fuels I: General Features
12:00	am	Lunch (on your own)
1:00	pm	Combustion II: Excess Air
2:00	pm	Combustion III: Chemical Energy
3:00	pm	Fuels II: Fuel Properties
4:00	pm	Combustion Systems I: Conventional Systems
5:00	pm	Adjourn for Day

## THURSDAY, DECEMBER 6, 2018

8:00	am	Discuss Review Exercises
9:00	am	Combustion Systems II: Gas Incineration Systems
9:45	am	Combustion Systems III: Boilers & Controls
10:15	am	Combustion Systems IV: Municipal Waste Combustion
10:45	am	Air Pollution Formation I: Acid Gases
11:30	am	Air Pollution Formation II: Particulates & Metals
12:00	noon	Lunch (on your own)
1:00	pm	Air Pollution Formation III: NOx
2:00	pm	Air Pollution Formation IV: Organics
3:00	pm	Air Pollution Control I: Particulates
4:00	pm	Air Pollution Control II: Acid Gases
4:30	pm	Air Pollution Control III: Modification for NOx
5:00	pm	Adjourn for Day

## FRIDAY, DECEMBER 7, 2018

8:00	am	Discuss Review Exercises
8:45	am	Air Pollution Control IV: NOx Flue Gas Cleaning
9:45	am	Emissions I: Efficiency Applications
10:45	am	Emissions II: Monitoring Systems
11:15	am	Emissions III: Calculations

12:00	noon	Lunch (on your own)
1:00	pm	Emissions IV: Engines & Turbines
1:30	pm	Emissions V: Gas & Boilers
2:00	pm	Emissions VI: Coal & Wood Fired Boilers
2:45	pm	Discuss Review Exercise
3:15	pm	Post-Test
5:00	pm	Adjourn

## ABOUT THE TRAINING COURSE

**WHO SHOULD ATTEND:** This course is a basic course that is designed for individuals within a regulatory agency whose role is to evaluate combustion sources for permitting and to determine the ongoing compliance status of such emission sources. This class is intended for new permit and compliance engineers and scientists who are responsible for permitting and compliance activities.

**LEARNING OBJECTIVES:** Those completing this course will gain a basic understanding of the different types of combustion sources and the operating characteristics of each source. Attendees will be able to apply the following combustion elements in a regulatory evaluation:

- Combustion sources burning liquid and solid wastes
- Combustion sources burning fossil fuel
- Combustion engines (diesel engines, gas turbines, etc.)
- Combustion principles
- Design and operational parameters
- Selected fundamental calculations
- Pollution control devices

**COURSE DESCRIPTION:** Students successfully completing this course should have the knowledge to work on combustion-related pollution problems such as estimating the actual and potential air pollution emissions from combustion sources; reviewing applications for permits to construct combustion facilities; and developing recommendations to improve the performance of malfunctioning combustion equipment.

**SPACE LIMITATION:** Registration is limited to 35 attendees. Air quality staff from the fifteen western states receive registration preference.

**REGISTRATION FEES:** There are no registration fees for state, local or tribal air quality agency staff. For federal employees, the registration fee is \$500.

## TRAINING LOCATION

**State of New Mexico**  
Toney Anaya Building  
Rio Grande Conference Room  
2550 Cerrillos Road  
Santa Fe, NM 87505

**Fairfield Inn & Suites**  
3625 Cerrillos Rd  
Santa Fe, NM 87505  
(505) 474-3900

**Best Western**  
3650 Cerrillos Rd  
Santa Fe, NM 87507  
(505) 438-3822

## HOTEL INFORMATION

Attendees and speakers are responsible for making their hotel reservations. Below is a list of potential hotels in Santa Fe that are within ~2 mile distance of the Tony Anaya Building. WESTAR DOES NOT have room blocks at these hotels. Please ask for government rates:

**Quality Inn – Santa Fe**  
3011 Cerrillos Rd.  
Santa Fe, NM, 87507  
(505) 471-1211

**Courtyard By Marriott**  
3347 Cerrillos Rd  
Santa Fe, NM 87507  
(505) 473-2800

**Comfort Suites**  
3348 Cerrillos Rd  
Santa Fe, NM 87507  
(505) 473-9004

**Super 8 Motel**  
3358 Cerrillos Rd  
Santa Fe, NM 87507  
(505) 471-8811

**Holiday Inn Express**  
3450 Cerrillos Rd  
Santa Fe, NM 87501  
(505) 474-7570