

# Preferred Utilities Manufacturing Corporation 2018 Training Schedule

December 27, 2017

**Subject: 2018 Training Schedule**

Dear Customers,

If you are looking to optimize plant operation or expand your control and fuel handling systems knowledge, Preferred's year-round Combustion and Fuel Handling courses are specifically designed to meet your needs. ***Welcome to the Preferred Training Center!***

Attached, please find your 2018 Training Schedule and Registration Form. Choose from the list of training courses listed on the following page.

These training courses provide an excellent opportunity to not only become familiar with Preferred's products and help ensure efficient field installation and commissioning, but also expand your knowledge of today's challenging control and fuel handling system technologies, strategies, and applications. These courses include "hands-on" training exercises that provide a complete comprehension of covered material.

Confirm your space by returning the attached registration form. All training classes are offered at a very low cost of \$175.00 per student enrolled. Space is limited and the class will be filled on a "first come-first serve" basis. We look forward to seeing you at our Preferred Training Center!

Best Regards,

Ruth O'Donnell  
Marketing Manager  
Preferred Utilities Manufacturing Corporation

## Training Schedule At-A-Glance

<b>Year</b>	<b>Month</b>	<b>Title</b>
2018	February	<b>AP-05:</b> BurnerMate Universal, how to configure, install and commission
	March	<b>AP-02:</b> PWC Chief Dispatchers and Feedwater Control Centers
	April	<b>AP-01:</b> PCC-III and DCS-III Controls: operation, programming and troubleshooting.
	May	<b>Combustion 101:</b> Learn basic combustion technology and engineering, principles of obtaining low NOx emissions and basic burner design concepts. Unfortunately, this class is not offered to the general public. Please see page 6 for additional information.
	June	<b>BI-02:</b> Boiler Instruments Commissioning: JC-10D Indicator, JC-15D Flue Gas Temperature Monitor, JC-22D Draft Controller, E-Link Damper Assembly, and the JC-30D Opacity Monitor.
	July	<b>FO-01:</b> Fuel Oil Handling Systems – design, installation and commissioning fuel oil systems for both day tank and boiler systems.
	August	<b>TBD by popular demand.</b>
	September	<b>AP-05:</b> BurnerMate Universal, how to configure, install and commission
	October	<b>AP-06:</b> PCC-IV and DCS-IV Controls: operation, programming and troubleshooting.
	<b>No Classes</b>	<b>January, November and December</b>

**Consult your Regional Sales Manager for other training opportunities.**

**TITLE: FS-01, Preferred Instruments Flame Safeguard Controls**

Description: This class starts with an in depth look at the Flame Safeguard codes and requirements in today's industrial burner market. Included will be an overview of flames scanners and their operation. Attendees of this class will also be introduced to the Preferred Instrument's product line of Flame Safeguard Controllers, scanners, annunciators and remote displays.

DURATION: 1.0 Day  
CAPACITY: Eight Students  
PRE-REQUISITES: None  
THINGS TO BRING: Nothing Required

DATE	LOCATION	REGISTRATION DUE DATE
Not scheduled this year	Danbury Training Center	

**TITLE: AP-02, PWC Chief Dispatchers and Feedwater Control Centers  
Operation, Programming and Trouble Shooting**

Description: This class covers the features, functions, wiring and programming of the PWC (Plant Wide Controller) by providing lectures, discussions and "hands-on" training exercises. The class includes hardware and software functional overview, front panel edit menu operation, PWC Edit®, installation & wiring. The class includes introductions to "Blockware" and Display, Chart and Menu modification techniques, and advanced boiler sequencing configuration. Example applications will also be reviewed.

DURATION: 1.0 Day  
CAPACITY: Ten Students  
PRE-REQUISITES: Having read the PWC Instruction Manual  
THINGS TO BRING: Laptop Computer

DATE	LOCATION	REGISTRATION DUE DATE
March 27 <sup>th</sup> & 28 <sup>th</sup>	Danbury Training Center	March 20 <sup>th</sup>

**TITLE: AP-04 BurnerMate TS Control Systems – Installation and Commissioning**

Description: This class covers the installation and commissioning of a Fully Metered Combustion Control System with a Variable Speed Drive (VSD) controlled FD Fan and Oxygen Trim. The class includes review of the application, equipment installation and programming through the touch screen. The successful student will be able to supervise the installation and independently commission a BurnerMate TS Boiler Control System.

DURATION: 1.5 Days  
CAPACITY: Six Students  
PRE-REQUISITES: PCC-III Field Experience or have taken the AP-01 class  
THINGS TO BRING: Laptop Computer & PCC-III Demo if available

DATE	LOCATION	REGISTRATION DUE DATE
Not Scheduled	Danbury Training Center	

**TITLE: AP-05 BurnerMate Universal Control Systems Programming, Installation and Commissioning**

Description: This class covers the installation and commissioning of a Fully Metered Combustion Control System with a Variable Speed Drive (VSD) controlled FD Fan and Oxygen Trim. The class includes review of the application, equipment installation and programming through the touch screen. The successful student will be able to supervise the installation and independently commission a BurnerMate Universal Control System. I

DURATION: 1.5 Days  
 CAPACITY: Eight Students  
 PRE-REQUISITES: A basic understanding of linkageless control and review of the BMU Manual  
 THINGS TO BRING: Laptop Computer

DATE	LOCATION	REGISTRATION DUE DATE
Feb. 27 <sup>th</sup> & 28 <sup>th</sup>	Danbury Training Center	February 20th
Sept. 25 <sup>th</sup> & 26 <sup>th</sup>	Danbury Training Center	September 16th

**TITLE: BI-02 Boiler Instruments Commissioning**

Description: This class provides basic product training for the Draft Controller (JC-22D), Flue Gas Opacity Monitor (JC-30D), Flue Gas Temperature Monitor (JC-15D) and PCC-III Based Oxygen Trim with Link Trim Actuator (LTA). Class material includes boiler operation principles that are relevant to instrument installation and operation. "Hands-on" training exercises will cover installation, wiring and commissioning requirements. Miscellaneous field equipment, such as "Smart" and analog transmitters and electric and pneumatic actuators, calibration and wiring will also be discussed.

DURATION: 1.5 Days  
 CAPACITY: Eight Students  
 PRE-REQUISITES: None  
 THINGS TO BRING: Nothing Required

DATE	LOCATION	REGISTRATION DUE DATE
June 26 <sup>th</sup> & 27 <sup>th</sup>	Danbury Training Center	June 19 <sup>th</sup>

**TITLE: FO-01 Fuel Oil Handling Systems – Design, Installation and Start-up**

Description: The class provides training for Preferred Utilities pump sets, D3 and D5 Tank Gauges and fuel oil system components. Basic design considerations and "Rules of Thumb" for fuel oil systems are discussed to provide the knowledge base required for successful system troubleshooting. "Hands-On" training exercises will cover installation, wiring, PWC operation and programming and other commissioning requirements. The student will learn to calculate system suction and supply pressures and to properly size the required piping. This year we have added an advanced maintenance and troubleshooting to this class.

DURATION: 1.5 Days  
 CAPACITY: Ten Students  
 PRE-REQUISITES: None  
 THINGS TO BRING: Nothing required

DATE	LOCATION	REGISTRATION DUE DATE
July 31 <sup>th</sup> & Aug 1 <sup>st</sup>	Danbury Training Center	July 17 <sup>th</sup>

**TITLE: AP-01, PCC-III & DCS-III Controls – Operation, Programming and Trouble Shooting**

Description: This class covers the features and functions of the PCC III Multiple Loop Controller by providing lectures, discussions and “hands-on” training exercises. The class includes hardware and software functional overview, front face editor menu operations, PC3 Edit®, and troubleshooting. The class includes introduction to “Blockware” modification and configuration techniques. The class uses the Boiler Submaster and Draft Control Configurations as bases for discussion. Configuration such as fully metered combustion control will also be discussed. Electric actuator setup and trouble shooting is included in the training exercises.

DURATION: 1.5 Days

CAPACITY: Ten Students

PRE-REQUISITES: Having read the PCC-III Instruction Manual

THINGS TO BRING: Laptop Computer & PCC-III Training Demo if you have one.

DATE	LOCATION	REGISTRATION DUE DATE
April 24 <sup>th</sup> & 25 <sup>th</sup>	Danbury Training Center	April 17 <sup>th</sup>

## **New Classes!!**

### **TITLE: AP-06, PCC-IV & DCS-IV Controls – Operation, Programming and Trouble Shooting**

Description: This class covers the features and functions of the new PCC IV Multiple Loop Controller by providing lectures, discussions and “hands-on” training exercises. The class includes hardware and software functional overview, front face editor menu operations, PC4 Edit®, and troubleshooting. The class includes introduction to “Blockware” modification and configuration techniques. The class uses the Boiler Submaster and Draft Control Configurations as bases for discussion. Configuration such as fully metered combustion control will also be discussed. Also included is a review of the easy steps to convert the PCC-III configuration to that of a PCC-IV to facilitate controls upgrades.

DURATION: 1.5 Days  
CAPACITY: Ten Students  
PRE-REQUISITES: Having read the PCC-IV Instruction Manual (located on our website)  
THINGS TO BRING: Laptop Computer

DATE	LOCATION	REGISTRATION DUE DATE
October 23 <sup>rd</sup> & 24 <sup>th</sup>	Danbury Training Center	October 16 <sup>th</sup>

### **Title: AP-07, FlexFit Control Systems, Programming, Installation and Commissioning**

Description: This class covers the installation and commissioning of a Linkageless Combustion Control System with a Variable Speed Drive (VSD) controlled FD Fan and Oxygen Trim. The class includes review of the application, equipment installation and programming through the touch screen. The successful student will be able to supervise the installation and independently commission a Flex-fit Control System.

DURATION: 1.5 Days  
CAPACITY: Ten Students  
PRE-REQUISITES: Having read the Flex-fit Instruction Manual (located on our website)  
THINGS TO BRING: Laptop Computer

DATE	LOCATION	REGISTRATION DUE DATE
Not scheduled this year	Danbury Training Center	

### **Title: Combustion 101**

Description: Due to the its contents of the material presented in this class it is not available to everyone. Please contact Doug Schmid at Preferred Utilities Manufacturing Corporation to see if you are qualified to attend. Learn basic combustion technology and the engineering and principles related to obtaining low NOx emissions and basic low NOx burner design concepts.

DURATION: 1.0 Day  
CAPACITY: Ten Students  
PRE-REQUISITES: Basic burner operation knowledge is helpful.  
THINGS TO BRING: Nothing required

DATE	LOCATION	REGISTRATION DUE DATE
May 30 <sup>th</sup> & 31 <sup>st</sup>	Danbury Training Center	May 22 <sup>nd</sup>

**CONTACT:**

Doug Schmid  
[dschmid@preferred-mfg.com](mailto:dschmid@preferred-mfg.com)

**Phone:**  
(203) 743-6741 ext. 1701  
To Register

**Internet:**  
[www.preferred-mfg.com](http://www.preferred-mfg.com)  
To get the latest schedule.

**Fax:**  
(203) 798-7313  
Fax this form to register

**Mail to:**  
Preferred Training Center  
31-35 South Street  
Danbury, CT 06810

\*Payment of \$175 per person must be received before attending any class

**CLASS INFORMATION:**

Class Title: \_\_\_\_\_  
Timing: 8:00 am to 4:00 pm

**PERSONAL INFORMATION:**

Name \_\_\_\_\_ Title: \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
Phone (\_\_\_\_) \_\_\_\_\_ Fax (\_\_\_\_) \_\_\_\_\_  
Email: \_\_\_\_\_

**ADDITIONAL ENROLLEES:**

Name \_\_\_\_\_ Title: \_\_\_\_\_  
Email: \_\_\_\_\_  
Name \_\_\_\_\_ Title: \_\_\_\_\_  
Email: \_\_\_\_\_  
Name \_\_\_\_\_ Title: \_\_\_\_\_  
Email: \_\_\_\_\_