

# 2012 INTERNATIONAL CLASS A FOAM AND CAFS ACADEMY

October 11-13, 2012

GLENDALE REGIONAL PUBLIC SAFETY TRAINING CENTER  
11550 W. Glendale Ave., Glendale, AZ 85307

## Program Guide and Registration



Charter Sponsors  
Elkhart Brass  
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Waterous Company

[AFoamAcademy.com](http://AFoamAcademy.com)

# Schedule At A Glance

## Wednesday, October 10

Registration—Marriott Residence Inn 4:00 pm—7:00 pm

## Thursday, October 11

Registration 7:00 am - 8:00 am  
Opening Session 8:00 am - 9:45 am  
Concurrent Seminars 10:00 am - 11:45 pm  
Lunch and Demos 11:45pm - 13:15 pm  
Concurrent Seminars 13:15 pm - 15:00pm  
Concurrent Seminars 15:15 pm - 17:00 pm

## Friday, October 12

Roundtable— Manufacturers 8:00 am - 9:45 am  
Concurrent Seminars 10:00 am - 11:45 pm  
Lunch and Demos 11:45pm - 13:15 pm  
Concurrent Seminars 13:15 pm - 15:00pm  
Concurrent Seminars 15:15 pm - 17:00 pm

## Saturday, October 13

Roundtable— Successful Users 8:00 am - 9:45 am  
Concurrent Seminars 10:00 am - 11:45 pm  
Lunch and Demos 11:45pm - 13:15 pm  
Concurrent Seminars 13:15 pm - 15:00pm  
EVT Testing, After Action Review 15:15 pm - 17:00 pm

Glendale Regional Public Safety Training Center  
11550 West Glendale Avenue  
Glendale, AZ 85307

# 2012

# Academy Program

Thursday, October 11

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7:00am to 8:00 am

## Registration

8:00 am to 9:15 am

## Opening Session

Welcome, Keynote, Speaker , Symposium Schedule and Housekeeping items

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10:00 to 11:45; 13:15 to 15:00;  
15:15 to 17:00

## Track Sessions

Saturday, October 13

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8:00 am to 9:45 am

## Applications Roundtable

Representatives from various fire departments using CAFS will discuss their operations and issues. They will also answer questions from attendees.

## Vendor Presentations

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10:00 to 11:45; 13:15 to 15:00;

## Track Sessions

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15:00 to 17:00

**EVT Testing**-must register for test through EVT, [www.evtcc.org](http://www.evtcc.org); Deadline 9-27-11; Site # AZ21812

Friday, October 12

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8:00 am to 9:45 am

## Equipment Roundtable

Foam and CAFS manufacturer representatives will discuss what is new with their products and take questions from attendees.

## Vendor Presentations

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10:00 to 11:45; 13:15 to 15:00;  
15:15 to 17:00

## Track Sessions

Tracks

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Students will follow one of four tracks:

**Basic (B):** Students new to foam

**Advanced (A):** Students already using foam who understand the basic principles. PPE and SCBA required for live fire.

**Admin/Chief (C):** Officers and Administrators who need to know how to effectively implement and use foam in their departments.

**EVT (M):** Technicians who service, diagnose and repair systems

**Advanced EVT (AM):** Experienced CAFS Technicians

# 2012

# Academy Program

## Basic Track

### Foam Properties (B)

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Basic properties of class A foam. Topics include history of class A foam, how foam works and is made, different types of foam products, and the difference between Class A, Class B, and other products.

### Foam Concentrates (B)

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In depth coverage of Class A foam concentrates. Topics include differences between concentrates, concentrate testing, purchasing, and concentrate storage and handling.

### Nozzles/Safety (B)

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This class will cover various types of nozzles available for both naturally aspirated and CAFS operations. Topics include aspirating nozzle theory, CAFS nozzle theory, and a discussion of nozzles currently available.

### Field Exercises-Nozzles (B)

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This class will begin with demos of various types of finished foam. Hands on will include aspirating nozzle operation and CAFS line operation.

**Helmets, eye protection, gloves and boots are required and must be provided by the student**

### Basic Proportioner Theory (B)

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This class will cover the basics of foam proportioning systems. Topics include basic proportioner theory, and the types of proportioners available and their operation.

### Basic CAFS Theory (B)

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This class will cover the basic operation of CAFS. Topics include basic CAFS theory and operation, basic CAFS components, and CAFS characteristics

### Field Exercises-Panel Ops (B)

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This class will provide hands-on instruction on proportioner operation, CAFS operation, and pump panel adjustments and troubleshooting

**Helmets, eye protection, gloves and boots are required and must be provided by the student**

### Field exercises-Applications (B)

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This class will provide hands-on instruction on various foam application techniques for structure attack and exposure protection.

**Helmets, eye protection, gloves and boots are required and must be provided by the student**

# 2012

# Academy Program

## Advanced Track

### Structural Applications (A)

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This class will cover CAFS applications when performing exterior, transitional, and interior structural attacks.

### Nozzles, Hose, Flows (A)

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This class will cover nozzles for both aspirated and CAFS operations and hose lays and configurations that work for foam. It will also cover typical flows for CAFS with various configurations and tactical objectives.

### Vehicle Fires, Special Apps (A)

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This class will cover the use of both aspirated foam and CAFS during vehicle fire attacks. It will cover special applications such as ladder pipes standpipes, sprinkler systems, etc. Fire investigation when using foam will also be discussed

### Wildland/WUI Applications (A)

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This class will cover aspirated and CAFS applications for direct and indirect attack, exposure protection, and mop up operations in the wildland. It will also cover aspirated and CAFS applications in the wildland-urban interface (WUI).

### Troubleshooting for operators (A) Classroom

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This class will cover how to troubleshoot and solve common operational issues that occur when operating Foam and CAFS systems on the fireground.

### Troubleshooting for operators (A) Hands On

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This class will hands on practice operating and troubleshooting Foam and CAFS systems

**Helmets, eye, hand, and foot protection required**

### Live Fire

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This class will provide hands on experience in vehicle fire attack and interior and exterior structure attack.

**Full PPE and SCBA (NFPA compliant/serviceable condition) must be provided by the student. No facial hair is permitted.**

# 2012

# Academy Program

## Chiefs Track

### Foam Concentrates (C)

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In depth coverage of Class A foam concentrates. Topics include differences between concentrates, concentrate testing, purchasing, and concentrate storage and handling.

### Foam/CAFS Success stories (C)

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In this session several presenters will speak concerning incidents where Foam and CAFS were used to effectively mitigate the situation

### Foam Training and SOG's (C)

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This class will cover the instruction needed to properly integrate CAFS into a fire department. It will include delivery instruction, train the trainer instruction, new recruit instruction and recurrent department training. Boiler-plate Foam SOG's will also be discussed.

### Foam/CAFS Equipment (C)

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This class will cover the types of systems available and which system is best for specific tactical applications. The class will also provide tips and tricks to write an effective specification.

### Foam Properties (C)

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Basic properties of class A foam. Topics include history of class A foam, how foam works and is made, different types of foam products, and the difference between Class A, Class B, and other specialty products.

### Integrating CAFS— Roundtable (C)

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This class will cover information and techniques to sell the foam/CAFS concept to both your department members and to your community.

### Field Exercises (C)

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This class will provide demonstrations and hands on experienced operating Foam/CAFS systems and flowing hose lines.

**Helmet, eye, hand, and foot protection required**

### Fireground Application for IC (C)

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This class will cover foam/CAFS fire ground operations as they relate to officers in the incident command position. Topics include basic capabilities of foam/CAFS, assigning foam units on the fire ground, and coordination of foam units with water-only units.

# 2012

# Academy Program

## EVT Track

### Basic Foam for Technicians (M)

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This class will cover basic Class A foam properties and operations to give technicians and understanding of how foam works, why it is used, and common operator errors.

### Proportioner Theory (M)

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This class will cover the various types of proportioners available and their components and operation.

### Proportioners-Hands on (M)

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This class will cover calibration and testing of various types and model's of proportioners.

**Eye, ear, hand, and foot protection will be required and must be provided by the student.**

### CAFS Theory (M)

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This class will cover in depth the operation of CAFS. Topics include CAFS theory and operation; CAFS components; air, cooling, and hydraulic circuits

### CAFS-Hands on (M)

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This class will cover compressor system tuning including maximum pressure adjustments and air/water pressure balancing. It will also cover annual compressor testing.

**Eye, ear, hand, and foot protection will be required and must be provided by the student.**

### Foam System Maintenance/ Troubleshooting (M)

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This class will cover the regular maintenance and service needed for different proportioners and CAFS. It will also cover troubleshooting for both proportioners and CAFS.

### Troubleshooting-Hands on (M)

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This class will provide hands on practice troubleshooting actual problems on foam and CAFS which have been "bugged" by the instructors.

**Eye, ear, hand, and foot protection will be required and must be provided by the student.**

### Writing Specifications for Foam/CAFS Systems (M)

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This class will cover the types of systems available and which system is best for specific tactical applications. The class will also provide tips and tricks to write an effective specification.

# 2012

# Academy Program

## Advanced EVT Track

### Foam and CAFS Retrofits (M)

This class will cover retrofits of both proportioners and CAFS. This will be a fast moving hands on based class. The class will install a retrofit CAFS on an existing fire apparatus. The installation will be completed during the three day academy. Both mechanical and fabrication skills will be utilized.

**Eye, ear, hand, and foot protection will be required and must be provided by the student**

**Students in the Advanced EVT Class must be experienced Foam/CAFS Technicians with solid basic knowledge of system operation. Class size will be limited to 12 students. Students must submit the application below to be considered for the class.**

### *Advanced EVT Class Application*

Name \_\_\_\_\_  
Address \_\_\_\_\_  
Agency \_\_\_\_\_  
Phone \_\_\_\_\_  
Email \_\_\_\_\_

Previous Foam/CAFS training  
\_\_\_\_\_  
\_\_\_\_\_

Hands on Foam/CAFS experience  
\_\_\_\_\_  
\_\_\_\_\_  
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Please provide a short statement outlining your interest in this class  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Submit application to Keith Klassen - kaklassen@waterousco.com , Fax 928-522-8169, or mail to Waterous AZ 7612N 74th Ave. Glendale, AZ. 85303



# 2012

# Registration

*Register Online at [AFoamAcademy.com](http://AFoamAcademy.com)  
or by using the form below*

NOTE: Use one registration form per person. Please return the completed form, with payment to: Waterous Company, attention Wendi Perez, 7612 N 74th Ave. Glendale AZ. 85303. If paying by credit card, you may fax or email your registration to: 623-979-6949 (fax) or [wbperez@waterousco.com](mailto:wbperez@waterousco.com)

NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

AGENCY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP \_\_\_\_\_

WORK PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

EMAIL: \_\_\_\_\_ CELL: \_\_\_\_\_

TRACK (check one): (B)\_\_\_\_ (A)\_\_\_\_ (C)\_\_\_\_ (M)\_\_\_\_ (AM)\_\_\_\_

REGISTRATION FEE: \$400.00 includes refreshments and lunch  
(Buy 4 get 1 registration free)

**PAYMENT INFO:**

Enclosed is a check payable to Waterous Company

Enclosed is an official Purchase Order

Credit Card: circle one: MC VISA

Name on Card \_\_\_\_\_

Card Number \_\_\_\_\_ Exp Date \_\_\_\_\_

Cancellations must be made in writing and sent to Waterous no less than 30 days prior to Academy date. 60 to 30 days prior, 50% refund. Less than 30 days prior, no refund is possible.

**Hotel:** A special rate (\$126 per night) has been negotiated for conference attendees at the: **Residence Inn & Springhill Suites, 7350-7370 N. Zanjero Blvd. Glendale, AZ 85305** Marriott Reservation line **1(800) 627-7468**

[www.residenceinnglendale.com](http://www.residenceinnglendale.com) [www.springhillsuitesglendale.com](http://www.springhillsuitesglendale.com)

Use Group Code: **“CAFS ACADEMY” GROUP BLOCK**