

Foam Fire Protection Engineering Seminar

One of a Kind Training from Foam Fire Protection Experts
May 8-10, 2018



The National Foam Fire Protection Engineering Seminar is the only one of its kind conducted anywhere. As a participant, you will be among a select group of practicing engineers and technical personnel who will be able to earn a certificate of completion this year. For those with NICET (National Institute for Certification of Engineering Technicians) the submittal of your completion certificate will earn 24 continuing education points. The instruction is concentrated and intense, and class size is limited to 30 students. To take advantage of this opportunity and to avoid disappointment, reserve your place today.

What You Will Learn

- Capability of foam agents, devices, and systems
- Proper engineering of foam fire protection systems
- Basic foam system hydraulic calculations
- Principles of foam proportioning and delivery systems
- Review of principal guides and standards related to foam system design
- Fixed, semi-fixed/portable/mobile foam systems, applications, and equipment
- Effective uses of foam systems in applications such as atmospheric flammable liquid tanks, aircraft hangars, loading racks, marine applications, and other hazard types

Who Should Attend

- Foam system design and technical personnel from:
 - Architectural and engineering firms
 - Chemical companies
 - Petrochemical companies
 - Military services
 - Oil companies
 - Industrial firms using flammable liquids
 - Regulatory agencies

- Building officials and insurance inspectors who review foam systems
- Mechanical engineers, designers of fire protection systems, and fire protection consultants

Class Schedule

Day 1 - (First Half) (Start Time 8:30AM at the West Chester Plant - 350 East Union St., West Chester, PA 19382)

- Welcome and Introductions (Start 8:30AM)
- Witness foam tests and equipment demos (weather permitting)
 - UL, Foam Quality Measurement/Expansion & Drainage, and Sample Catching
 - Equipment Display and Hands-On Instruction
 - Bladder Tank
 - Proportioners
 - Hi Ex Generator
 - Ratio Controllers
 - Foam Skid
 - Line Proportioners
 - Foam Chambers
- Laboratory Demonstrations
 - AR vs Non AR Foams (Laboratory)
 - Film Formation (Laboratory)
 - Wetting (Laboratory)
 - Foam Percent Measurement (Proposals Station)
 - Conductivity
 - Refract
 - Curve Development

**Day 1 - (Second Half) Clarion Inn
Exton - Start Time 8AM unless
otherwise instructed**

- Lunch at 12PM
- Fundamentals of foam agents, including environmental concerns
- Foam testing comparisons and considerations
- Module #1 Flammable Liquid Fuels & Foam Concentrates
 - o Module 1A Flammable Liquid Fuels
 - o Module 1B Basics of Foam
 - o Module 1C Foam Agents Listing & Approvals
 - o Module 1D Environmental Issues
- Module #2 Foam Equipment & Design Overview
- Dinner at Bonefish Grill at 6:30PM, 460 W. Lincoln Highway, Exton, PA 19341, (610-524-1010)

****Please RSVP to hank.shaefer@nationalfoam.com if you will be attending****

**Day 2 - (Clarion Inn Exton - Start
Time 8AM unless otherwise
instructed)**

- Start 8:00AM
- Module #3 Foam Proportioning Systems
- Lunch at Noon (delivered at 11:30-11:45AM)
- Module #4 NFPA 11 Related Systems - (Start Time 1PM)
 - o Module 4A Storage Tank Systems
 - o Module 4B High Expansion Systems
 - o Module 4C "Big Flow" Systems
- Module #7 How to Request Proposals
- Module #8 Systems Testing

**Day 3 - (Clarion Inn Exton - Start
Time 8AM unless otherwise
instructed)**

- Start 8:00AM
- Module #5 NFPA 16 Related Systems
 - o Module 5A Foam Water Sprinkler Systems
 - o Module 5B Foam System Hydraulics
 - o Module 5C Loading Rack Foam Systems
- Lunch at Noon
- Module #6 NFPA 409 Related Systems - (Start Time 1PM)
- Questions and Answers
- Handout Certificates

For further information regarding the class curriculum, please contact Bruce Shipley, Training Manager at (610) 431-8635.

What Attendees Receive

- National Foam Engineering Manual
- Current NFPA Standards #11, #16, and #409
- Presentation manual
- Certificate of Completion
- 4 GB Flash Drive

Location and Hotel

The Engineering Seminar will be conducted at the following locations:

- Tests and demonstrations at:
 - National Foam Inc.
 - West Chester Facility
 - 350 E. Union Street
 - West Chester, Pennsylvania 19382
- Classroom sessions at:
 - The Clarion Inn Exton
 - 815 North Pottstown Pike
 - Exton, Pennsylvania 19341

Attendees are responsible for securing their own travel arrangements, including hotel and transportation.

The Clarion Inn - Exton is offering seminar attendees accommodations at a rate of \$69 (2 double beds or one king) per night plus tax. All rooms include free wireless high speed internet. Call and mention "National Foam Group" when making the reservation.

The Clarion Inn - Exton

815 North Pottstown Pike
Exton, PA 19341
(610) 363-1100

Note: For NF room rate, call for reservations.

To Register

Please complete the registration form on the next page and forward it to National Foam, Inc.

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Registration Form

Please enroll me in National Foam's Fire Protection Engineering Seminar.

Enclosed is payment for \$695.00 (U.S. funds) to cover tuition and all materials and textbooks as described in the seminar announcement. I understand that all other expenses, including those related to travel, lodging, and food are my responsibility. Registration must be received no less than 30 days prior to scheduled seminar date.

Student Information

NAME (as you would like it to appear on your course completion certificate)		
COMPANY		TITLE
ADDRESS		CITY
STATE/PROVINCE	POSTAL CODE	COUNTRY
PHONE	FAX	EMAIL
LANGUAGE PREFERENCE FOR CLASS MATERIALS <input type="checkbox"/> English <input type="checkbox"/> Spanish		

Payment Information (Payment must be received at the time of registration. Attendees will receive an email confirmation.)

MODE OF PAYMENT <input type="checkbox"/> Check* <input type="checkbox"/> Visa <input type="checkbox"/> MasterCard <input type="checkbox"/> Discover <input type="checkbox"/> American Express		
CREDIT CARD NUMBER		SECURITY CODE
CREDIT CARD BILLING ADDRESS		EXPIRATION DATE
CARD HOLDER'S NAME	CREDIT CARD BILLING ADDRESS	
CITY	STATE/PROVINCE	POSTAL CODE
COUNTRY	SIGNATURE	
PHONE		

*Please make check payable to National Foam, Inc.

Mail, email or fax Registration Form with tuition payment to:

Mail:

National Foam, Inc.
 Attention: Amanda Pope
 141 Junny Road
 Angier, NC 27501
 Phone: 919-639-6151

Email:

customer.service@nationalfoam.com
 Attention: Amanda Pope

Fax:

919-639-6131
 Attention: Amanda Pope