

Foam & Flammable Liquids Training

Lesson 1: 12:21

We begin a new series on foam application and flammable liquids. In this lesson, we cover the sources and composition of foam, reasons to use or not use it, a discussion of flammable liquid terms and limits, combustibility, specific gravity, and vapor density. Contact Hours: 0.5

Lesson 2: 14:06

We continue our series on foam application and flammable liquids. In this lesson, we cover more on flammable limits, combustibility, specific gravity, and vapor density. Contact Hours: 0.5

Lesson 3: 10:19

We continue our series on foam application and flammable liquids. In this lesson, we cover the difference between hydrocarbon and polar solvent fuels and their reaction to different kinds of foam. Contact Hours: 0.5

Lesson 4: 10:20

This segment continues the series on Foam & Flammable Liquids Training. It covers when NOT to use foam, the Foam Tetrahedron, foam types, usage characteristics, efficiencies, and the proper way to test foam's viability. Teaching Points: the best ways to use foam based on its characteristics and suitability for the suppression incident at hand and the view of using foam from a management perspective. Contact Hours: 0.5

Lesson 5: 10:53

This segment continues the series on Foam & Flammable Liquids Training. It covers line proportioners; specifically, inline eductors, their operation and reasons for failure; structural foam nozzles and system pressures, foam percentages, and other foam dispersing systems including by-pass eductors, premix systems, and around-the-pump proportioning devices. Contact Hours: 0.5

Lesson 6: 13:06

This lesson continues the series on Foam & Flammable Liquids Training. Subjects covered include discharge devices and nozzles and their advantages; expansion ratios and discharge time; foam application techniques; and foam incident response considerations (RECEO). Contact Hours: 0.5

Lesson 7: 7:38

Continuing with Lesson 7 in our Foam & Flammable Liquid Training, we review foam NFPA application rates for hydrocarbons and polar solvents and related logistics, the computations necessary to figure how much foam will be needed based on the equipment used, a handy, slide-chart calculator that makes the computations easy, the importance of preplanning our foam needs, and some sample spill scenarios to practice resource planning. Contact Hours: 0.5

Lesson 8: 11:20

In Lesson 8 in our Foam & Flammable Liquid Training, we cover concentrate labeling and E85 fuel: its composition, testing, and extinguishment. We then move outside and compare foam flowed through a structural and foam nozzle and their drainage times. We stress the importance of employing a safety hoseline to protect foam crews and the cleaning and annual maintenance of foam equipment. Contact Hours: 0.5

Lesson 9: 9:18

In this lesson, we begin our “hands-on” portion of the series and apply foam to extinguish polar solvent fires. We cover the components and usage of the Pro/Pak, the foam application system used in the live evolutions, and the methods, tips, and techniques for extinguishing polar solvent fires using foam. Also covered are the safety factors to remember when conducting live burns and live burn procedures. Contact Hours: 0.5

Lesson 10: 9:02

This lesson concludes our course series on Foam & Flammable Liquids Training. In this lesson we learn a way to control flammable liquid fires with a hoseline and water streams using the Trough Fire prop. This technique allows firefighters to control the movement of flammable liquid fires even if they can't extinguish it. It's a great way to control a fire until adequate foam supplies arrive. Contact Hours: 0.5