



Module 6: Ethanol-Blended Fuel Emergencies

Objective

Upon the successful completion of this module, participants will be able to determine a method for cleaning up specific blended fuel spills at specific locations.

Introduction

- Ethanol develops bond with gasoline when blended:
 - Retains hydrocarbon / gasoline characteristics
- Absorbents & booms pick up ethanol-blended fuel
- Water introduced:
 - Forms water / ethanol solution that drains to bottom of fuel mix
- Oil-type boom / absorbent will pick up gasoline leaving water / ethanol solution

Introduction

- Water / Ethanol solution picked up with water absorbing boom / absorbent:
 - May be flammable
 - If foam used to contain ethanol-blended fuel vapor:
 - Portion of foam solution absorbs into ethanol-blended fuel

Personal Protective Equipment (PPE)

- Critical that all responders wear appropriate PPE
- Components of generic PPE:
 - Helmet with face shield / eye protection meeting ANSI Z87.1
 - Protective hood
 - Turnout coat
 - Turnout pants
 - Gloves
 - Boots
 - Respiratory protection

Personal Protective Equipment (PPE)

- Respiratory protection especially critical:
 - Respiratory system primary route of exposure into body for hazardous chemicals
- 3 types:
 - APR & PAPR
 - SAR
 - SCBA



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Activity 6.1 — Incident Procedures

- Purpose:
 - To become familiar with the correct order of steps in the following procedures & the rationales behind them.

Summary

- Procedures to ensure safe incident management for spill / fire
- Knowing type of fuel spilled / burning essential to success of operation
- Take steps to contain event & appropriately distribute proper foam