DOLLHOUSE FIRE BEHAVIOR PROP

Impact of Tactics on Fire Behavior

Instructor Guide



Lesson Plan

In this lesson, participants will enhance their understanding of the impact that various firefighting tactics have on fire behavior through a visual demonstration on a Dollhouse Fire Behavior Prop.

Big Picture

Understanding how critical size-up cues reflect fire behavior and how tactics can impact a fire is imperative for making strategic fireground decisions

Prop Information

A Dollhouse Fire Behavior Prop is a great way for participants to visualize fire behavior concepts and tactics on a small scale for enhanced understanding. Consideration should be given to the fact that this is a small-scale prop, and fire may react more quickly than it would on the fireground. The Dollhouse Construction Plans and Basic Assembly Instructions and Build video can be found online at training.fsri.org/resources or by clicking the links below.

Download the Construction Plans

Watch the Build Video

Background Information

In order to fully understand the topics presented in this lesson, participants should have a solid understanding of bidirectional and unidirectional flow paths and air entrainment.

Watch the Demonstration

Key Takeaways

- Visible smoke cues observed during size-up can help determine the size, extent, and location of a fire.
- Controlling ventilation is key to controlling the growth and spread of a fire.
- Not all suppression tactics are created equal; different stream patterns impact fire behavior differently.

Discussion

After viewing the demonstration, consider the following topics to engage your participants in a discussion.

- Discuss how your department's 360-degree size-up policy accounts for smoke cues and ventilation openings.
- Discuss how to effectively perform door control and the importance of this tactic.
- Discuss how to get water on the fire to effectively suppress the fire.

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