

Skill Sheet: Structure Defense Kit

Objective

Each squad member must be able to demonstrate how to use the Structure Defense Kit. The kit consists of a Mark-3 pump with primer and fuel, a pumpkin, suction hose, hose, nozzles, wyes, a tool kit and a foot valve. The kit is meant to be mobile. Getting the kit and all its parts on/off T-1, B-1 or a pickup truck is part of the training.

Team members will individually demonstrate hose rolls, basic nozzle operation (flow rate and how to avoid water hammer), and proper nozzle settings and surfactant to water ratio for defending a house.

The squad has arrived in a fire vehicle and has been assigned to deploy the structure defense kit. Typically, a two person team will deploy with the kit.	
Proper vehicle placement (facing escape route, not under power lines)	
Scene size-up. What are the hazards associated with this structure? Squad leader will communicate action plan to team.	
How will you know when it is time to leave? What is your evacuation plan? With time to spare or “cut and run”	
Lay out kit with all parts accessible. Check kit against inventory.	
Set up pumpkin, pump, drafting hose. Will a tender be able to easily fill the pumpkin or is there a water source nearby?	
If you have to set up the pumpkin on a hill how will you secure it?	
Take the hose roll and toss it so it unrolls properly	
Identify the end of the hose that would connect to the water supply and the fittings needed	
Do a hose lay around the house	
Connect hose & nozzle and start pump	
Run through pump start step-by-step directions	
Hose down the structure and surrounding vegetation	
Replace kit parts and return kit to vehicle	