

# Flashover Simulator Operations, User Guidelines & Fees



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## **1.0 How the Cheatham County Firefighters' Association was able to acquire this unique training tool.**

Thanks to the Federal Emergency Management Agency's Assistance to Firefighters' Grant, the Cheatham County Firefighters' Association (CCFFA) was able to receive a Swede Survival Systems Flashover Simulator. This unique training tool will equip firefighters with the knowledge and hands-on demonstration of not only the signs leading to flashover, but flashover itself in a controlled environment. We hope the training with the Flashover Simulator will save firefighters' lives.

## **2.0 Scheduling the Flashover Simulator**

A designee appointed by the president of the Cheatham County Firefighters' Association Training Committee (CCFFATC) shall be responsible for all scheduling and communications to the appropriate parties (an e-mail to the President of the CCFFA and all CCFFATC officers shall be sent for each scheduled use).

The president of the CCFFA or the CCFFATC may, at their discretion, restrict the usage of the Flashover Simulator.

A web calendar posted on Cheathamfire.org shall be maintained to show dates when the Flashover Simulator is reserved for training.

The Flashover Simulator may be scheduled on a first come basis with priority given to in county use.

## **3.0 User Fees: Flashover transported to user's site**

The following user fees are recommended and the president of the CCFFA may waive the collection of any or all the user fees.

### **3.1 Maintenance Fee**

Every 500 burns, the Flashover Simulator is to be returned to the factory for refurbishing and safety inspection. The fee of \$100 per burn for out of county users is recommended.

### **3.2 Material Fees**

Each burn requires \$100 worth of wood sheeting. Due to the nature of fire and variables involved, we prefer to use one type of sheeting for consistency per burn. The user will not be allowed to supply the sheeting.

### **3.3 Instructor Fees**

At least one CCFFA approved instructor will travel with the Flashover Simulator to assure proper usage of the simulator (this assumes the other instructors have been certified and approved by the CCFFA). Lead instructors shall be compensated \$200 per day of training.

### **3.4 Assistant Instructor Fee**

The assistant instructor guidelines allow for the use of a State of Tennessee Firefighter II to assist the Flashover Simulator lead instructor. This position shall be compensated \$120 per day of training.

### **3.5 Out-of-County use at Cheatham County Training Site Fee**

The user fee for an out-of-county fire department to attend a Flashover Survival class shall be \$80 per student with a minimum of ten students participating. This fee covers maintenance, materials, and instructor fees.

### **3.6 Transportation Fee**

The user shall cover all transportation costs.

### **4.0 Instructor Requirements**

The simulator cannot be operated without a minimum of three personnel. This requires a lead instructor, an assistant instructor and a safety officer.

#### **4.1 Lead Instructor:**

To become a lead instructor you shall be a minimum of a Live Fire Instructor (meeting requirements of NFPA 1403) and Fire Instructor I through the State of Tennessee Fire Commission, have had the proper training related to instruction of the flashover simulator and been approved by majority vote from the training committee. As a lead instructor you will be the "nozzle man" and simulator instructor. An assistant instructor may be used as a "nozzle man" with your discretion. It is your responsibility to ensure the simulator is set up properly, training is conducted in a safe manner and everything has been placed back in service after training.

#### **4.2 Assistant Instructor:**

To become an assistant instructor it is preferred you be a minimum of Firefighter II through the State of Tennessee Fire Commission, have had the proper training related to instruction of the flashover simulator and been approved by majority vote from the training committee. As an assistant instructor you will be involved in setting up and overhauling before and after each evolution. You will be the "vent man," the safety and outcome of each burn depends on you. During the evolutions you must be able to efficiently communicate with the lead instructor. An assistant instructor may be used as a "nozzle man" instructor only if the lead instructor during that evolution has approved it.

#### **4.3 Safety Officer:**

To become a safety officer it is preferred you be a minimum of Firefighter I through the State of Tennessee Fire Commission, have had the proper training related to set-up and safety of the flashover simulator and been approved by majority vote from the training committee. As the safety officer it is your responsibility to ensure that both the instructors and students actions are of a safe manner. Your primary role prior to an evolution is checking everyone's personal protective equipment before they enter the flashover. You are the point person to observe the 'big picture' and address any safety concerns that arise.

**Note:** It is ultimately up to the Lead Instructor to place individuals where he/she deems necessary regardless of certification level.

## **5.0 Class Format**

The first portion of the class will be a PowerPoint® presentation. It is best to team-teach this with an assistant instructor. Keep in mind the audience you are delivering this class to and modify your presentation and 'war stories' accordingly.

The second portion of the class is hands-on. Depending on time, it is beneficial to 'load' the flashover with help from your students so they can see just how little fuel is needed. After all the safety issues are addressed, it is time to light the fire and work through the evolutions.

After the burn is complete, have the students overhaul the flashover and clean it out making it ready for the next class.

## **6.0 Teaching Materials**

The PowerPoint®, hard copy of the PowerPoint® with note space, LCD projector, screen, computer with speakers and electrical extension cord are necessary to deliver this class.

## **7.0 Waivers & Safety Guidelines**

Please make sure you have the waiver of liability and safety guidelines to pass out AND collect at the end of the classroom portion of the training. You will find these forms in your Flashover Simulator Instructor's notebook.

## **8.0 Flashover Simulator Logbook**

The lead instructor is responsible for making sure the logbook is

updated with the class he/she is teaching. The Flashover Simulator Scheduler will maintain the logbook and it should be returned to the scheduler when you return or complete a training.

Departure Date Inspection:

— —

Name: \_\_\_\_\_

## Flashover Simulator Travel Checklist

Return Date Inspection:

— —

Name: \_\_\_\_\_

This list is to be filled out prior the departure of the Flashover Simulator by the lead instructor and/or the person transporting the Flashover Simulator.

### Inside Flashover Checklist:

- Crib fire barrel present?
- Is there plenty of newspaper for starting fire?
- Is the propane cylinder and flint starter present (with enough fuel)?
- Do you have enough plywood?
- Do you have enough pallets?
- Is the chain saw fueled and full of bar oil?
- Did you load enough helmets?
- Is the breaker bar on the Flashover?
- Is the safety chain hook pole on the Flashover?
- Are all the platform safety chains and safety posts on the Flashover?
- Are two brooms and two scoop shovels on the Flashover?
- Is the Flashover nozzle on the Flashover?

Is the fifth wheel/goose neck adapter on the Flashover?

Is the pad lock key on the stick on the Flashover?

Are the winch power supply cables on the Flashover?

Is the winch control cable on the Flashover?

**Outside Flashover Check List:**

Is the front platform stowed and secured?

Are the wheel chocks removed and in the Flashover?

Is the winch ready for travel?

Are all doors secured and padlocks in place and secured?

Are the breaks and lights hooked up and functioning?

Are all tires inflated to recommended travel pressure?

Have you performed a final walk-around inspection prior to departure?

Do you have all necessary teaching materials and forms for class?

### **Storing Flashover for next use Check List:**

- Have you returned helmets and Flashover users' manual to climate controlled storage unit?
- Are there any items that need to be replaced or fixed and have you replaced, fixed, or notified the Flashover Scheduler of these needs or remedies?
- Have you filled out the log sheet in the Flashover users' manual?