## **Viking Seminar Information Sheet**

Seminar (Event) Title: Viking VSH1230 Clean Agent System with 3M Novec1230

**Seminar Description:** Through discussion, activities and interactive labs, this seminar

will explore the VSH1230 Clean Agent System with 3M

Novec1230

Topics covered will include a thorough review of the system components & hardware, functionality, and pressure drop calculations with the VSH DesignManager software. Students will also be exposed to unique products from the Viking Group

Inc.

**Duration (Days):** 1 day

Number of Modules: 5

**Total Instructional Minutes:** 8 Hours

**Seminar Format(s):** Classroom instruction coupled with hands-on Lab work,

and demonstration

Participant Materials: VSH1230 Installation Manual, VSH1230 Design Software

Manual, laptop computer.

**Learning Outcomes:** Upon completion of this seminar the attendee will have:

1. Understand the functionality of the components and hardware for VSH1230 Clean Agent System with 3M

Novec1230

2. The ability to design & install VSH1230 Clean Agent

System with 3M Novec1230

**Assessment Method(s):** Participation and Test

TITLE: MODULE 1: INTRODUCTION TO SPECIAL HAZARD CLEAN AGENT SYSTEMS

**Duration:** (120) minutes

**Learning Outcomes:** At the conclusion of this module the participant will be able to:

Why we need clean agent systems

Clean agent applications

Understand how easy a clean agent system works

Understand toxicity levels, health and safety considerations

See

**Delivery Methods:** Lecture (Recorded or Live)

**Activity Descriptions**: Participation

**Assessment Method(s):** N/A

TITLE: MODULE 2: COMPONENTS AND HARDWARE

**Duration:** (120) Minutes

**Learning Outcomes:** At the conclusion of this module the participant will be able to:

1. Understand the components and hardware and installation of

components and hardware.

**Delivery Methods:** Lecture, demonstration, and hands-on activity

**Activity Descriptions:** Hands on in the Suppression Lab

**Assessment Method(s):** Participation

TITLE: MODULE 3: REVIEW OF VSH1230 NOZZLES

**Duration:** (30 minutes)

**Learning Outcomes:** At the conclusion of this module the participant will be able to:

1. Identify the application and placement for the VSH1230 Nozzles

**Delivery Methods:** Classroom discussion/Lecture

**Activity Descriptions:** N/A

**Assessment Method(s):** Participation

TITLE: MODULE 4: ADVANCES IN CLEAN AGENT

**Duration:** (30 minutes)

**Learning Outcomes:** At the conclusion of this module the participant will be able to:

1. Identify the application for the 725 psi VSH1230 systems

2. Understand pipe sizes and delivery of agent in 10 seconds

3. Recognize the components of Halon System and comparisons to 725 psi with VSH1230.

4. Understand pipe fittings for clean agent systems

**Delivery Methods:** Lecturing

**Activity Descriptions:** N/A

**Assessment Method(s):** Participation

## TITLE: MODULE 5: REVIEW OF VSH "DESIGNMANAGER" SOFTWARE

**Duration:** (180 minutes)

**Learning Outcome:** At the conclusion of this module the participant will be able to:

1. Navigate the design software for VSH1230 systems

2. Be able to enter enclosure information for a hazard and determine design concentrations to suppress a fire for the same hazard

3. Understand how to select a container with agent for a specific hazard

4. Understand how to enter pipe sections known as nodes in the program

5. Be able to select nozzles to add to the pipe network for a hazard

6. Understand the requirement for pressure venting for a hazard

7. Complete examples provided by instructor

**Delivery Methods:** Lecturing

**Activity Descriptions:** Navigate through software

**Assessment Method(s):** Complete examples provided by instructor