Viking Seminar Information Sheet

Seminar (Event) Title:	**Viking Storage Protection Solutions**
Seminar Description:	Through discussion, lab work and interactive activities this in-class seminar will explore the challenges of protection storage occupancies, the codes and standards that impact system design and the protections solutions utilizing Viking sprinklers.
Duration (Days):	2 days
Number of Modules:	7
Total Instructional Minutes:	600 (10 hours) 1 CEUs & 10 CPDs
Seminar Format(s):	Lecture, Activity, Hands-on Labs and demonstration
Participant Materials:	Sprinkler Guides Technical Data Sheets Activity Sheets Participant Guide
Learning Outcomes:	Upon completion of this seminar the attendee will be able to: 1. Discuss the challenges of protecting storage occupancies 2. Describe how the codes and standards establish sprinkler system design and installation requirements. 3. Apply the design requirements to various storage protection scenarios. 4. Compare various sprinklers and explain how they provide solutions for the fire challenges 5. Identify the application of specialized sprinklers systems for the protection of specific storage occupancies
Assessment Method(s):	Questions, Quizzes, Activity Participation and Presentation

MODULE 1 – INTRO TO THE PROTECTION OF STORAGE

Duration (min.): 60 min

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

1. Discuss how the storage industry has changed and become more challenging for fire protection
2. Discuss how fire sprinklers and fire sprinkler systems have changed to address the challenge

Delivery Methods: Self-Paced Lecture, Group Exercise

Activity Descriptions (if used): Group Exercise

MODULE 2– THE CODES AND STANDARDS

Duration (min.): 60 min

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

1. Identify the requirements for the protection of storage occupancies in NFPA 13
2. Identify the requirements for the protection of storage occupancies in FMDS 8-9
3. Compare and contrast NFPA 13 & FMDS 8-9
4. Discuss the impact of the documents on design decisions for the protection of storage

Delivery Methods: Lecture and discussion

Activity Descriptions (if used): N/A

Assessment Method: End of class exercise

MODULE 3 – COMMODITY CLASSIFICATIONS

Duration (min.): 60 min

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

1. Identify commodity classifications.
2. Recognize various factors used to determine a commodity.
3. Apply knowledge in determining classifications based upon provided information.
4. Explain results of selection of proper commodity.

Delivery Methods: Lecture, Exercise

Activity Descriptions (if used): group exercise.

MODULE 4 – STORAGE ARRANGEMENTS

Duration (min.): 60 min

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

1. Discuss different types of storage arrangements.
2. Explain how different arrangements can affect protection scheme.

Delivery Methods: Lecture, Activity Descriptions

Assessment Method: End of class exercise

MODULE 5 – STORAGE SPRINKLERS

Duration (min.): 90

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

1. Describe possible storage sprinkler types.
2. Classify the best suited sprinkler type based upon storage arrangement.
3. Indicate various options of protection based upon storage sprinkler classification.
4. Discern the flow characteristics and developed patterns based upon sprinkler type.

Delivery Methods: Lecture, Exercise

Activity Descriptions (if used): Flow Lab demonstration showing spray patterns of storage sprinklers.

MODULE 6 – COLD STORAGE PROTECTION OPTIONS

Duration (min.): 90

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

1. Identify which types of sprinkler systems are applicable to freezers and coolers.
2. Select the appropriate types of sprinklers for these storage arrangements.
3. Demonstrate reset freezer storage systems.
4. Describe how each of these systems operates.

Delivery Methods: Lecture, Individual Exercise

Activity Descriptions (if used): Questions

Assessment Method: End of Class Exercise

MODULE 7 – STORAGE PROTECTION SOLUTIONS

Duration (min.): 180

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

1. Present solutions for various storage challenges.
2. Explain the different results for system design based on the standard applied

Delivery Methods: Group activity developing solutions to storage challenges

Activity Descriptions (if used): Presentation of Solutions

Assessment Method: End of Class Exercise