

Identifying Fire Safety Issues

Activity: 2-1

Format: Individual (in a small class) /Small Group (2-3 people in a larger class)

Time Frame: 1 hour and 30 minutes

Description

This activity provides students with an opportunity to conduct a fire safety review to identify issues that need to be addressed by a community risk reduction plan.

Instructions

1. Read the reports (see below).
2. Identify the trends you see.
3. Present your findings to the class and address the following items:
 - a. Which occupancies have the highest risk?
 - b. Which occupancies pose the greatest hazard?
 - c. Which occupancies could employ engineering solutions to address issues?
 - d. Which occupancies could employ enforcement solutions to address issues?
 - e. Which occupancies could employ education solutions to address issues?
 - f. Which occupancies need economic incentive solutions to address issues?
 - g. Which occupancies pose a problem with emergency response?
4. What is one thing that you could do as a Fire Marshal that would have the greatest reduction in risk to your community?

Fire Marshal 1B

Activity 2-1: Identifying Fire Safety Issues

Occupancy Type	Number of fires	Fire Cause	Property Loss	Property Value	Deaths	Injuries	FF Injuries
A-2	16		F1,652,015.00	F26,725,000.00		6	2
A-2	3	Intentional act	F27,000.00	F4,725,000.00			2
A-2	13	Failure to clean grease ducts	F1,625,015.00	F22,000,000.00		6	0

Occupancy Type	Number of fires	Fire Cause	Property Loss	Property Value	Deaths	Injuries	FF Injuries
A-3	3		F1,252,250.00	F4,511,250.00			
A-3	2	Intentional Act	F5,000.00	F3,264,000.00			
A-3	1	Unattended Candles	F1,247,250.00	F1,247,250.00			1

Occupancy Type	Number of fires	Fire Cause	Property Loss	Property Value	Deaths	Injuries	FF Injuries
B (Restaurants)	17	Failure to clean grease ducts	F3,264,233.00	F17,277,252.00		2	2

Occupancy Type	Number of fires	Fire Cause	Property Loss	Property Value	Deaths	Injuries	FF Injuries
B (Other than restaurant)	6		F197,375.00	F12,980,000.00			2
B (Other than restaurant)	2	Electrical Failure	F22,000.00	F4,750,000.00			
B (Other than restaurant)	4	Toaster Fires	F175,375.00	F8,230,000.00		1	

Fire Marshal 1B

Activity 2-1: Identifying Fire Safety Issues

Occupancy Type	Number of fires	Fire Cause	Property Loss	Property Value	Deaths	Injuries	FF Injuries
E	7	Intentional act	F1,475,650.00	F19,500,000.00			2

Occupancy Type	Number of fires	Fire Cause	Property Loss	Property Value	Deaths	Injuries	FF Injuries
F-2	1	Equipment Failure	F927,655.00	F5,345,000.00			2

Occupancy Type	Number of fires	Fire Cause	Property Loss	Property Value	Deaths	Injuries	FF Injuries
I-2.1	1	Failure to clean grease ducts	F455,240.00	F1,435,220.00		1	

Occupancy Type	Number of fires	Fire Cause	Property Loss	Property Value	Deaths	Injuries	FF Injuries
M	22		F30,814,471.00	F69,705,000.00			3
M	4	Intentional Act	F2,525,350.00	F14,227,000.00			
M	2	Electrical Failure	F12,000.00	F6,245,000.00			1
M	14	Improper clearance to combustibles	F6,277,121.00	F27,233,000.00			1
M	2	Improper separation of Hazardous Materials	\$22,000,000.00	F22,000,000.00			1

Fire Marshal 1B

Activity 2-1: Identifying Fire Safety Issues

Occupancy Type	Number of fires	Fire Cause	Property Loss	Property Value	Deaths	Injuries	FF Injuries
R-1	2		\$131,000.00	F4,127,250.00		1	
R-1	1	Intentional	\$127,000.00	F2,705,250.00			
R-1	1	Smoking Materials	\$4,000.00	F1,422,000.00		1	

Occupancy Type	Number of fires	Fire Cause	Property Loss	Property Value	Deaths	Injuries	FF Injuries
R-2	42		\$18,385,813.00	F102,145,590.00			
R-2	6	Intentional	\$2,225,700.00	F31,500,000.00			
R-2	4	Undetermined	\$1,275,000.00	F4,750,000.00	2	1	
R-2	22	Cooking Related	\$9,257,358.00	F46,274,835.00	2	1	
R-2	5	Smoking Related	\$752,000.00	F12,000,000.00			
R-2	2	Electrical Related	\$525,000.00	F3,270,000.00			
R-2	3	Drug Manufacturing	\$4,350,755.00	F4,350,755.00		6	

Occupancy Type	Number of fires	Fire Cause	Property Loss	Property Value	Deaths	Injuries	FF Injuries
R-3	53		\$18,453,716.00	F42,259,921.00	4	8	
R-3	3	Intentional	\$1,250,111.00	F2,125,000.00		2	
R-3	7	Undetermined	\$1,450,225.00	F5,622,000.00	1		
R-3	6	Improper clearance to combustibles	\$982,177.00	F4,835,100.00	2	4	
R-3	37	Cooking Related	F14,771,203.00	F29,677,821.00		1	

Fire Marshal 1B

Activity 2-1: Identifying Fire Safety Issues

Occupancy Type	Number of fires	Fire Cause	Property Loss	Property Value	Deaths	Injuries	FF Injuries
R-4	1	Smoking Related	F27,000.00	F837,222.00	1	1	

Occupancy Type	Number of fires	Fire Cause	Property Loss	Property Value	Deaths	Injuries	FF Injuries
Vegetation Fires	101		F1,800,000.00	F39,276,055.00			
Vegetation Fires	15	Intentional	F260,000.00	F260,000.00			4
Vegetation Fires	3	Mowing	F1,275,000.00	F37,250,225.00			
Vegetation Fires	1	Lightning Strike	F15,000.00	F15,000.00			