

Certification: Pre-engineered Kitchen Fire Extinguishing System Technician



Exam ID: FK

Scope:

The pre-engineered kitchen fire extinguishing system technician is responsible for performing inspection, testing, and maintenance on pre-engineered kitchen fire extinguishing systems. He/she shall possess an understanding of standard practices, guidelines, capabilities, and limitations of pre-engineered kitchen fire extinguishing systems.

The technician shall have in-depth knowledge of hazards inherent in different occupancies and be familiar with standard industry safety practices. In addition, he/she shall demonstrate a thorough understanding of and the ability to apply codes, regulations, manufacturer's requirements, and standards regarding the systems.

- 80 multiple-choice questions
- 2-hour limit
- Open book

01	Occupancies and Hazards Identification	12%
0101	<u>Identification of Occupancy</u> Identify the occupancy of the kitchen's location in a new, altered, or remodeled structure.	1%
0102	<u>Identification of Proximity</u> Identify the individual hazards of the location in a new, altered, or remodeled structure (proximity of hoods to each other).	5%
0103	<u>Identification of Hazards</u> Identify the hazards to be protected by the system being installed.	6%
02	General Component Requirements	20%
0201	<u>Required Components</u> Determine what components are required.	8%
0202	<u>Location of Components</u> Determine where components are allowed to be located.	8%
0203	<u>Function of Components</u> Determine whether components are appropriate for the expected function.	4%
03	Hoods and Exhaust Systems	10%
0301	<u>Identification of Systems</u> Identify the type and technology of hood and exhaust system.	4%
0302	<u>Identification of Deficiencies</u> Determine deficiencies in the hood and exhaust system that will affect the performance of the extinguishing system.	6%

04	Administration and Records	6%
0401	<u>Submission of Plans</u> Identify the authorities having jurisdiction for the installation and submit the prepared layout to them.	1%
0402	<u>Layout Documentation</u> Document the layout as installed.	3%
0403	<u>Reporting</u> Provide certifications and manuals to end users, as well as prepare reports and affix seals and tags.	1%
0404	<u>Certifications and Manuals</u> Provide certifications and manuals to end users, as well as prepare reports and affix seals and tags.	1%
05	Installations	24%
0501	<u>Remediation</u> Remediate existing conditions.	4%
0502	<u>Site Conditions</u> Identify local geographic conditions and structural conditions of the installation site, e.g., earthquake zones, building structure.	1%
0503	<u>Materials</u> Determine installation material required to install the system.	5%
0504	<u>Installation</u> Identify, coordinate, and install the system.	10%
0505	<u>Acceptance Testing</u> Conduct the acceptance test of the system.	4%
06	Inspection	4%
0601	<u>Inspections</u> Perform monthly inspection of the system.	4%
07	Maintenance and Recharge	24%
0701	<u>Maintenance</u> Perform semi-annual maintenance on the system.	12%
0702	<u>Recharging</u> Perform recharge of the system.	3%
0703	<u>Testing</u> Perform hydrostatic test or six-year maintenance of the system.	3%
0704	<u>Upgrades and Alterations</u> Determine if circumstances have occurred that require an upgrade or alteration.	6%