

Refrigeration Safety Awareness Certificate of Competency Examination Syllabus

Effective: June 2000

Prerequisites to obtain a Refrigeration Safety Awareness Certificate (RSA)

1. Complete an approved RSA course.
2. Be employed in a general supervision or risk-assessed plant.
3. Provide written documentation from the plant's Power Engineer attesting:
 - a. that the plant has specific (posted) directions that will enable the RSA Certificate holder to effectively recognize, and remedy by reporting unsafe conditions; and
 - b. that the RSA applicant has received training and is qualified on in-plant shutdown and safety procedures specific to RSA Certificate holders plant.
4. Pass a boiler safety awareness examination.

Scope of Refrigeration Awareness Certificate (BSA)

- A RSA certificate entitles the holder to be in attendance to watch over the refrigeration plant named on the RSA certificate in a refrigeration plant operating under the general supervision or risk assessed status with a total plant capacity not exceeding 1 000 kW prime mover nameplate rating.
- The holder of a RSA certificate is not permitted to operate or perform any repairs to the refrigeration plant but is permitted to shut down the plant or initiate safety procedures if specifically trained and assigned to perform such tasks.

Subject areas of study

Each of the four subsections is weighted at approximately 25%.

1. B.C. Refrigeration Safety Legislation:

- Safety Standards Act and applicable regulation;
- Responsibilities of a safety awareness certified person;
- Responsibilities of a plant safety committee;
- Reporting of accidents and incidents;
- CSA B52 general code knowledge; and

- Log books and records, why signed and dated, and their use.

2. Refrigeration Systems:

- History of safety codes and legislation;
- Typical refrigeration system;
- Safety relief piping and valves;
- Location and use of the king valve;
- Location and use of emergency discharge valve;
- Lubricants in a refrigeration system, importance and monitoring;
- Basic knowledge of refrigerant types, use, properties and dangers;
- Indications of refrigerant leaks, effects of ozone depleting substances to our environment; and
- Safety controls, purpose and location.

3. Safety Equipment in a refrigeration plant:

- Types of accidents and accident prevention;
- Classes of fires and fire protection equipment; and
- Emergency breathing apparatus.

4. Safety Procedures:

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- Safety alarms, shutdown devices and procedures;
- Emergency shutdowns;
- Evacuation procedures; and
- Safe work practices.

Note: *Provision of appropriate WCB & WHMIS training is the responsibility of the employer.*