



STUDY MATERIAL FOR THE  
**ASD2**  
ASSESSMENT

(Automatic Sprinkler Domestic On-site)  
September 20, 2010

This document contains sample questions for the ASD2 assessment. Make sure to download the pdf document containing required exam materials.

You will not be allowed to take this material into the test center if it is not bound.

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## About the Assessment:

**Assessment Abbreviation:** ASD2

**Number of Questions:** 30

**Amount of Time for Test:** 1-hour (60 minutes)

**Exam Format:** Open book (bring your own books); calculators will be available, writing tablet or paper will be provided for calculations. Any books or exam documents brought into exam must be bound as no loose papers are allowed.

**Passing Score:** 80%

**Cell Phones:** Do not bring cell phones, pagers, or radios into the test center.

**Codes / Materials Used for Exam and Editions:**

- 2010 NFPA 13D
- Sprinkler head materials in this document
- CPVC pipe materials in this document

### **General Assessment Information:**

**About the Questions:** Questions are randomly selected from respective topics within a larger database. Answer choices are randomly mixed, meaning that choice “B” will not always be in position “B”.

**Exam Format:** Questions are computer based and will be delivered one at a time. You will have the opportunity to go back and review all questions. You can also “check” a box within each question which will flag it for later review. During the review, checked questions will be marked for easier identification. See the document on “Screen Shots” under the “Test Info” link on our web site.

**Time Clock:** Most assessments will have a count-down timer displayed on the screen. It may appear as if this timer is fluctuating between questions (gaining time on one question and losing time on the next question). This is normal. The software has a specific function which ensures your time is protected if there is a loss of the Internet connection. It is very difficult to explain the logic behind the clock. However, we can assure you that you are getting all of your time. Do not steadily watch the clock, but rather use it as a general guide. Long pauses between questions will result in the biggest time jump as the computers verify that you are still testing and did not lose the Internet connection.

The following are sample questions for the ASD2 Assessment:

1. NFPA 13D: Unless sprinklers are listed with specific discharge criteria, systems shall provide a discharge of not less than \_\_\_\_ gpm per sprinkler to the number of design sprinklers, and not less than \_\_\_\_ gpm to any single operating sprinkler. Assume a house over 2,000 square feet.
  - 13, 10
  - 18, 15
  - 13, 18
  - 10, 30
2. Where stored water is used, the water supply for a 1,500 square foot single story house shall equal the minimum demand rate times \_\_\_\_ minutes.
  - 4
  - 5
  - 9
  - 7
3. A well with a pump of sufficient capacity and pressure to meet the sprinkler system demand shall be considered acceptable by NFPA 13D.
  - True
  - False
4. [NFPA 13D] The sprinkler system piping shall not have a separate control valve installed unless supervised by which of the following methods: (select all that apply)
  - Central station, proprietary, or remote station alarm service
  - Local alarm service that causes the sounding of an audible signal at a constantly attended location.
  - Valves that are locked open
5. Within a house covered by NFPA 13D, quick-response sprinklers are not permitted in mechanical closets.
  - True
  - False
6. Unless otherwise allowed by code, sprinklers installed where maximum ambient ceiling temperatures are between 101F and 150F shall be:
  - Ordinary Temperature
  - Intermediate Temperature
  - High Temperature
7. The minimum distance that an ordinary temperature sprinkler may be from the edge of a 100 watt light fixture is:
  - 4 inches

- 6 inches
  - 9 inches
  - 12 inches
8. In accordance with the data sheet for a Reliable Model F1 (Bulletin 135 Rev. G), evaluate the following: For a “F1 Res 58 Pendent and Recessed Pendent” sprinkler, the minimum required pressure in psi required at the furthest sprinkler for a spacing of 14’ x 14’.
- 7.6
  - 10.8
  - 14.4
  - 7
9. In accordance with the data sheet for a Reliable Model F1 (Bulletin 135 Rev. G), evaluate the following: For a “F1 Res 58 Pendent and Recessed Pendent” sprinkler, the allowed distance that the deflector may be below the ceiling is:
- 1-4 inches
  - 1-6 inches
  - 0.5-3 inches
  - 0-4 inches
10. In accordance with FlameGuard installation manual, the minimum cure time for a pressure test of 90 psi, on a 1” pipe, with an ambient temperature of 100F would be:
- 2 hours
  - 30 minutes
  - 15 minutes
  - 45 minutes
11. In accordance with FlameGuard installation manual, the maximum snaking deflection in inches for a 40-foot section of 1.5-inch pipe would be:
- 4.3 inches
  - 6.3 inches
  - 79.3 inches
  - 69.3 inches