

## **NTC Grey Book Answer Key**

### **Task 1.1.1**

- |   |   |                |
|---|---|----------------|
| 1 | D | First Aid book |
| 2 | D | First Aid book |
| 3 | C | First Aid book |
| 4 | C | First Aid book |
| 5 | B | First Aid book |

### **Task 1.2.1**

- |   |   |  |
|---|---|--|
| 1 | C | Contracting textbook   |
| 2 | D | Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 46 |
| 3 | D | Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 46 |
| 4 | C | Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 47 |
| 5 | D | Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 40 |

### **Task 1.4.1**

- |   |   |   |
|---|---|---|
| 1 | E | Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 126 |
| 2 | C | Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 123 |
| 3 | D | Math Textbook   |
| 4 | D | Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 140 |
| 5 | D | NFPA 13-3.2.2, page 17  |

### **Task 1.4.2**

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| 1 | B | NFPA 13-3.3.4.2, page 17  |
| 2 | D | NFPA 13-3.5.2.10, page 19 |
| 3 | B | NFPA 13-24.4(2), page 226 |
| 4 | A | NFPA 13-24.5.2, page 226  |
| 5 | C | NFPA 13-4.3, page 24      |

### **Task 1.4.3**

- |   |   |  |
|---|---|--|
| 1 | E | Dictionary   |
| 2 | C | NFPA 13-5.4, page 25   |
| 3 | A | NFPA 13-7.8.5, page 42   |
| 4 | A | NFPA 13-5.6.3.1, page 25   |
| 5 | C | Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 95 |

### **Task 1.5.1**

- |   |   |                   |
|---|---|-------------------|
| 1 | C | NFPA 101          |
| 2 | D | NFPA 101-9.7      |
| 3 | B | NFPA 13-Chapter 2 |
| 4 | C | NFPA 13-Chapter 2 |
| 5 | C | NFPA 13-Chapter 2 |

**Task 1.6.1**

- 1 B NFPA 13-3.4.8, page 26
- 2 E NFPA 13-7.2.4, page 34 & 7.4.2.8, page 36
- 3 A Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 150
- 4 C NFPA 13-Table 6.2.3.1, page 23
- 5 C NFPA 13-8.2.1(3)(b), page 47

**Task 1.6.2**

- 1 A NFPA 13-5.2, page 24
- 2 C NFPA 13-5.3.2, page 25
- 3 B NFPA 13-A.5.6.3, page 243
- 4 C NFPA 13-A.5.3.2, page 242
- 5 B NFPA 13-A.5.4.1, page 243

**Task 1.6.3**

- 1 B NFPA 13-3.3.6, page 18
- 2 A NFPA 13-3.3.15, page 18
- 3 D NFPA 13-3.3.18, page 18
- 4 C IBC-404.1.1, page 41
- 5 B IBC-502.1, page 75

**Task 1.6.4**

- 1 E NFPA 13-23.2, page 221, A.23.2.2, page 343
- 2 C NFPA 13-23.1.3.1, page 220
- 3 C NFPA 13-6.7.1.3, page 32
- 4 C NFPA 13-A.23.2.1, page 342
- 5 C NFPA 13-10.1.5, page 106

**Task 1.6.5**

- 1 B NFPA 13-Ch 2, page 14
- 2 C NFPA 14-3.3.12.2, page 7
- 3 B NFPA 14-3.3.14.2, page 7
- 4 D NFPA 14-4.6.2.1, page
- 5 D NFPA 14-3.3.16.2, page 7

**Task 1.6.6**

- 1 A Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 485
- 2 A Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 489
- 3 A NFPA 13-Figure A.5.14.6, page 57
- 4 C NFSA Book, page 527, NFPA 20-5.7.2, page 12
- 5 C NFSA Book, page 535, NFPA 20-12.4.2.2, page 44

**Task 1.6.7**

- 1 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 123
- 2 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 132
- 3 A Blueprint textbook
- 4 C  $Q=AxD$
- 5 B NFPA 13-Table 8.6.2.2.1(a), page

**Task 1.6.8**

- 1 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page72
- 2 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 72
- 3 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 327
- 4 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 324
- 5 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 318

**Task 1.6.9**

- 1 A NFPA 13-3.1.2.1, page 92
- 2 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 168
- 3 B NFPA 13-6.7.4.1, page 32
- 4 C NFPA 13-6.2.3.5, page 27
- 5 D NFPA 13-8.7.2.2, page 90

**Task 1.6.10**

- 1 A NFPA 13-9.1.1.5.2, page 92
- 2 C NFPA 13-Table 9.1.2.1, page 94
- 3 D NFPA 13-Table 9.1.2.5.1,page 94
- 4 D NFPA 13-A.9.1.1, page 277
- 5 B NFPA 13-Tabel 9.2.2.1(a), page 97

**Task 1.6.11**

- 1 B NFPA 13-6.2.6.2.1, page 28
- 2 A NFPA 13-6.3.5, page 29
- 3 A NFPA 13-6.4.5.1,page 90
- 4 A NFPA 13-6.9.3.4, page 33
- 5 A NFPA 13-6.5.1.1, page 30

**Task 1.7.1**

- 1 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 46
- 2 A Contracting textbook
- 3 D Contracting textbook
- 4 D Contracting textbook
- 5 C Contracting textbook

**Task 1.8.1**

- 1 D NFPA 101-9.7.2.1, page
- 2 C Contracting textbook
- 3 A NFPA 13-A.8.15.5.3, page 269
- 4 C Contracting textbook
- 5 C NFPA 13-21.20.2.1.1, page 197

**Task 1.8.2**

- 1 D NFPA 13-24.1, page 221
- 2 D NFPA 13-24.4, page 226
- 3 C Contracting textbook
- 4 E NFPA 13-24.2.1.4, page 225
- 5 B NFPA 13-26.1, page 231

**Task 2.1.1**

- 1 C MSDS sheets
- 2 D Contractors textbook
- 3 D MSDS sheets
- 4 C Contractors textbook
- 5 C Contractors textbook

**Task 2.2.1**

- 1 A Contractors textbook
- 2 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 38
- 3 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 39
- 4 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 39
- 5 A Contractors textbook

**Task 2.4.1**

- 1 C Blueprint textbook
- 2 D Blueprint textbook
- 3 D Blueprint textbook
- 4 E Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 126
- 5 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 126

**Task 2.4.2**

- 1 A NTC Brown Book, page 381
- 2 C NTC Brown Book, page 383
- 3 B NTC Brown Book, page 387
- 4 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 132
- 5 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 131

**Task 2.4.3**

- 1 D NFPA 13-8.2.1, page 47
- 2 D NFPA 13-8.3.2.3, page 47
- 3 B NFPA 13-Table 8.3.2.5(b), page 48
- 4 A NFPA 13-8.4.3, page 50
- 5 B NFPA 13-8.4.6.2, page 50

**Task 2.5.1**

- 1 B IBC-Chapter 9
- 2 A IBC, page 174
- 3 D IBC, page 175
- 4 C IBC, page 175
- 5 B IBC, page 177

**Task 2.6.1**

- 1 B NFPA 13-7.3.2.1(11), page 35
- 2 D NFPA 13-Table 7.5.2.2, page 33
- 3 B NFPA 13-Table 8.6.2.2.1.(c), page 53
- 4 D NFPA 13-3.7.2, page 20
- 5 C NFPA 13-6.2.5.1, page 28

**Task 2.6.2**

- 1 C NFPA 13-A.5.3.2, page 242
- 2 C NFPA 13-5.3.2, page 25
- 3 D NFPA 13-A.5.3.2, page 243
- 4 D NFPA 13-5.4.1, page 25
- 5 D NFPA 13-5.4.2, page 25

**Task 2.6.3**

- 1 C NFPA 13-3.7.2, page 20
- 2 A NFPA 13-8.6.3.4.1, page 53
- 3 C NFPA 13-Table 8.6.2.2.1.(c), page 53
- 4 B NFPA 13-8.3.3.2.1, page 52
- 5 C NFPA 13-Table 8.7.2.2.1, page 59

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- 1 D NFPA 13-8.2.1, page 47
- 2 D NFPA 13-8.3.2.3, page 47
- 3 B NFPA 13-Table 8.3.2.5(b), page 47
- 4 A NFPA 13-8.4.3, page 50
- 5 B NFPA 13-8.4.6.2, page 50

**Task 2.6.5**

- 1 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 176
- 2 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 201
- 3 D Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 197
- 4 D Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 199
- 5 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 211

**Task 2.6.6**

- 1 C NFPA 13-8.17.5.2.2, page 92
- 2 B NFPA 13-Chapter 2, page 14
- 3 A NFSA Book, page 472, NFPA 14-3.3.12.1, page 6
- 4 A NFSA Book, page 473, NFPA 14-3.3.14.1, page 7
- 5 D NFSA Book, page 474, NFPA 14-3.3.14.3, page 7

**Task 2.6.7**

- 1 A Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 480
- 2 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 481
- 3 D Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 73
- 4 E Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 73
- 5 D Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 496

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- 1 C NFPA 13-7.1.2.1, page 33
- 2 D Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 310
- 3 A NFPA 13-7.2.3.3 and 7.2.3.4, page 34
- 4 C NFPA 13-7.2.3.10, page 34
- 5 C NFPA 13-11.2.3.2.5, page 116

**Task 2.6.9**

- 1 B NFPA 13-A.5.3.1, page 242
- 2 B NFPA 13-Figure 11.2.3.1.1, page 115
- 3 A NFPA 13-11.2.3.11, page 15
- 4 C NFPA 13-11.2.3.2.5, page 116
- 5 C NFPA 13-8.5.2.1.2, page 51

**Task 2.6.10**

- 1 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 579
- 2 B NFPA 13-6.2.9.5, page 28
- 3 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 596
- 4 D NFPA 13-7.1.10.12.2, page 46
- 5 E Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 576

**Task 2.6.11**

- 1 B [www.Firestop.org](http://www.Firestop.org)
- 2 A [www.Firestop.org](http://www.Firestop.org)
- 3 C [www.Firestop.org](http://www.Firestop.org)
- 4 A [www.Firestop.org](http://www.Firestop.org)
- 5 B [www.Firestop.org](http://www.Firestop.org)

**Task 2.6.12**

- 1 B NFPA 13-22.1.3, page 207
- 2 A NFPA 13-A.5.2, page 242
- 3 B NFPA 13-A.5.6.3, page 242 and 5.6.2.2, page 25
- 4 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 153
- 5 D Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 143

**Task 2.6.13**

- 1 D NFPA 13-9.1.1.2, page 92
- 2 D NFPA 13-9.1.5.7.1, page 96
- 3 D NFPA 13-9.1.1.2(1),page 92
- 4 D NFPA 13-9.2.3.4.1, page 98
- 5 B NFPA 13-9.2.5.1, page 99

**Task 2.6.14**

- 1 D NFPA 13-6.3.5, page 29
- 2 A NFPA 13-6.3.8.1, page 29
- 3 B NFPA 13-6.4.5.1, page 30
- 4 A NFPA 13-6.5.1.3. page 30
- 5 D NFPA 13-6.5.1.1, page 30

**Task 2.7.1**

- 1 D Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 125
- 2 A NFPA 13-4.3, page 24
- 3 B NFPA 13-Table 6.1.1.3, page 26
- 4 C NFPA 13-6.1.1.1,page 26
- 5 D Contractors textbook

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- 1 C NFPA 13-24.2.1.5, page 225
- 2 D NFPA 13-24.2.1.11,page 225
- 3 A NFPA 20-14.1.1.1, page 49
- 4 D NFPA 20-14.4, page 51
- 5 B NFPA 14-11.4.5.1, page 21

**Task 2.8.2**

- 1 B Construction textbook
- 2 B Construction textbook
- 3 D Construction textbook
- 4 A Construction textbook
- 5 A Construction textbook



**Task 3.2.1**

- 1 B Construction textbook
- 2 E Construction textbook
- 3 B Construction textbook
- 4 D Construction textbook
- 5 C Construction textbook

**Task 3.4.1**

- 1 A Construction textbook
- 2 B Construction textbook
- 3 D Construction textbook
- 4 B Construction textbook
- 5 A Construction textbook

**Task 3.4.2**

- 1 A NFPA 13-3.6.2.2. page 19
- 2 D NFPA 13-8.8.2.1.2, page 62
- 3 A NFPA 13-8.8.3.4.1, page 63
- 4 C NFPA 13-8.8.2.2.2, page 62
- 5 C NFPA 13-8.4.6.2, page 50

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- 1 A NFPA 13-8.4.5.1, page 50, NFPA 13D-3.3.8.2, page 26
- 2 D NFPA 13-8.15.8.1.1, page 83
- 3 D NFPA 13-11.3.1.5, page 118
- 4 D Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 463
- 5 A NFSA Book, page 464, NFPA 13D-Table 5.1.1.1 & 5.2.2.2, page 40-41

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- 1 B NFPA 13-Chapter 2
- 2 B NFPA 13-6.9.4.2, page 33
- 3 D NFPA 13-Chapter 2
- 4 A NFPA 13D/13R Handbook - A.1.1, page 6
- 5 A NFPA 13D/13R Handbook - A.1.2, page 114

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- 1 D Physical science textbook
- 2 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 95
- 3 D Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 100
- 4 D Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 100
- 5 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 102

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- 1 A NFPA 13-Table 6.2.3.1, page 27
- 2 D NFPA 13-A.5.3.1, page 242
- 3 C NFPA 13-8.6.2.2.2, page 51
- 4 B NFPA 13-22.4.4.10.1,page 216
- 5 C NFPA 13-Table 11.2.3.1.1, page 115

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- 1 C NFPA 13-3.9.1.13,page 22
- 2 C NFPA 13-8.2.1(4), page 47
- 3 E NFPA 13-8.13.2.1, page 80
- 4 A NFPA 13-Table 15.2.5(a), page 130
- 5 C NFPA 13-Table 14-.3.1(a), page 128

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- 1 E Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 543
- 2 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 549
- 3 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 556
- 4 A Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 651
- 5 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 551

**Task 3.6.5**

- 1 B NFPA 13-23.1.3.1, page 220
- 2 D Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 191
- 3 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 211
- 4 B NFPA 13-7.8.8.1, page 42
- 5 D NFPA 13-23.1.3.2(2), page 220

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- 1 NFSA Book, page 476, NFPA 14-7.10.1.1.5, page 17
- 2 NFSA Book, page 476, NFPA 14-7.3.2, page 16
- 3 NFSA Book, page 473, NFSA 14-14.6.4.5.2, page 18
- 4 NFSA Book, page 472, NFPA 14-3.3.12.4, page 7
- 5 NFPA 13-8.7.5.2.2(3),page 92

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- 1 C NFSA Book, page 510, NFPA 20-5.14.5.1, page 14
- 2 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 516
- 3 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 519
- 4 A NFSA Book, page 510, NFPA 20-5.14.5.1
- 5 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 489

**Task 3.6.8**

- 1 B NFPA 13-3.9.3.7.3, page 23
- 2 C NFPA 13-16.16.1, page 137
- 3 B NFPA 13-16.2.1.3.2, page 139
- 4 B NFPA 13-3.9.3.7.4, page 23
- 5 B NFPA 13-Table 18.4(9), page 185

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- 1 C NFPA 13-6.4.4.1, page 30
- 2 B NFPA 13-6.3.7.22, page 29
- 3 C NFPA 13-6.2.5.1, page 28
- 4 B NFPA 13-6.2.5.1, page 28
- 5 A NFPA 13-6.2.6.1.2, page 27

**Task 3.6.11**

- 1 B [www.Firestop.org](http://www.Firestop.org)
- 2 C [www.Firestop.org](http://www.Firestop.org)
- 3 A [www.Firestop.org](http://www.Firestop.org)
- 4 D [www.Firestop.org](http://www.Firestop.org)
- 5 D [www.Firestop.org](http://www.Firestop.org)

**Task 3.6.12**

- 1 B NFPA 13-A.10.4.1, page 276
- 2 C NFPA 13-Table A.10.8.2(a)
- 3 C NFPA 13-Table 10.8.3.1.2.2, page 109
- 4 B NFPA 13-Table 10.10.2.1.3, page 119
- 5 C NFPA 13-Table 10.10.2.2.1, page 110

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- 1 B Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 428
- 2 B NFSA Book, page 430, NFPA 13-9.5.5.6.1, page 101
- 3 B NFPA 13-9.2.5.3.2, page 100
- 4 C NFPA 13-Table 9.3.5.9.1, page 105
- 5 C NFPA 13-Table 9.3.6.4, page 106

**Task 3.6.14**

- 1 D Contractors textbook
- 2 C Contractors textbook
- 3 B Contractors textbook
- 4 D Contractors textbook
- 5 D Contractors textbook

**Task 3.6.15**

- 1 B NFPA 13-6.9.3.4, page 33
- 2 B NFPA 13-8.17.11, page 89
- 3 A Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 563
- 4 D Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 567
- 5 C Layout, Detail, and Calculation of Fire Sprinkler Systems (NFSA Book), page 567

**Task 3.8.1**

- 1 C Contractors textbook
- 2 B Contractors textbook
- 3 C Contractors textbook
- 4 C Contractors textbook
- 5 C Contractors textbook

**Task 3.8.2**

- 1 D Contractors textbook
- 2 B Contractors textbook
- 3 D Contractors textbook
- 4 D Contractors textbook
- 5 D Contractors textbook