Study Guide/Practice Test

Please call or email Tom Milano for questions:

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Certifications will be awarded for 100% scores only.

Preparation for the test: The purpose of this Firestop Study Guide and Practice Test is to train and certify the cabling professional. Please follow all directions carefully!

Directions:

- **Print ... or Download & Save**- Print out (preferred method) or Download & Save this Study Guide/Practice Test before taking the Official Online Certification Test. Don't skip this step! You will need this test later.
- **Train**- You will need access to a computer for training. First, click to watch the Firestop Training Video before attempting the Practice Test. You will also need to click and read this important article, Firestopping By The Numbers to understand the concepts and apply its theory to many of the test questions.
- **Record Answers**- Complete the Practice Test using the website as you would an open book test. The answers can be found on each of the Systems' Product pages. If you don't have access to a printer, jot down the question numbers and answers on a piece of paper.
- **Submit Official Online Certification Test**- Finally, open the Official Online Certification Test, transfer your answers to that test and submit your answers online. Your test will be graded and you will be contacted within 48 hours. Please retain this Practice Test with your answers in case we need it for further review. You may be asked to resubmit answers for any missed questions.

NOW BEGIN THE TEST. GOOD LUCK!

Scenario 1: Retrofit (Split Sleeve Firestop System)

The Administrator from a local hospital calls your office. He is concerned about some cables penetrating fire-rated walls and saw you listed as a Certified Installer on the UNIQUE Fire Stop Products Map of Certified Installers on our website. The Joint Commission will pay him a visit soon and he is about to panic. He is interested in our Split Sleeve System. Can you help him?

They have (50) Cat 5 UTP cables that are routed through a firewall with (4) sheets of 5/8" fire rated gypsum. The cables are .20" in diameter.

The job site address is 111 Main Street, Dallas, TX, 74453. The Inspector's jurisdiction is Local.

1. What is the rating of the firewall?
    - 3 hours
    - 2 hours
    - 1 hour
    - 4 hours

2. Which UL System did you select for this job?
    - W-L-3234
    - W-L-3232
    - F-A-3019
    - W-L-3231

3. What % cable load is permitted with this listing?
    - 48%
    - 38%
    - 70%
    - 100%

4. How much intumescent putty should be packed in the ends?
    - ½ inch
    - 2 inches
    - 1 inch
    - None

5. Does the listing require mineral wool batt insulation as "packing"?
    - No
    - Yes

6. What size Split Sleeve did you spec for this job? (Be careful! Consult the Cable Load Chart specifically for this product.)

- SSS-1
- SSS-4
- SSS-2

7. How will you go about seeking preapproval from the AHJ?
   - A phone call
   - A fax
   - An email
   - Download and submit the AHJ request for consideration in such a way as to insure I get a copy of the "approved" document.

8. Why should you take a digital photo when finished?
   - Looks professional
   - Protects me from others misusing my system and tells me if additional room exists for more cables.
   - To maintain an Alpha Numeric Installation pictorial for the customer.
   - All of the above

9. What is an MSDS?
   - Material Sure Does Shine
   - Material Safety Data Sheet
   - Material Specification Data Sheet
   - Material Specifications & Description Sheet

10. What are the dimensions of the SSS-4 washers? (Look for Drawings and Specs on the Split Sleeve product page.)
    - 4 inches square
    - 6 inches x 6 inches
    - 7 inches x 7 inches
    - 8 inches square

Congratulations! You've finished the first Scenario. You're on your way to being Certified. Now finish the rest of the Practice Test before you transfer your answers to the Official Online Certification Test form.

Scenario 2: New Installation- Horizontal

The hospital is calling again. Now they are installing new cables and would like for you to install sleeve systems for their job. They are running (100) Cat 5E cables measuring .25" each, through a cinder block wall. The wall is not reinforced with concrete or steel rebar. When you've decided which UNIQUE Fire Stop product to use, go to that product page and use the information there plus the article, Firestopping by the Numbers, to answer the following questions.

1. What is the rating of the wall?
    - 1 hour
    - 2 hours
    - 3 hours
    - 4 hours

2. What type and size system did you select for this installation?
    - 1" Split Sleeve System
    - 2" Threaded Firestop Sleeve
    - 4" Smooth Firestop Sleeve
    - Membrane Firestop

3. What UL System did you select?
    - W-L-3231
    - W-J-3109
    - W-L-3109
    - F-A-3019

4. What % cable load is allowed with the UL System you selected? Be careful! Consult the Cable Load Chart specifically for this product.
    - 48%
    - 34%
    - 70%
    - 100%

5. How much intumescent putty is required to seal the end of the Sleeve System?
    - 1 inch
    - 2 inches
    - 3 inches
    - Pack it full of putty

6. How many additional .25" cables may be installed later? Consult the Cable Load Chart for this product.
    - 1
    - 10
    - 20
    - 100

Scenario 3: New Installation - Vertical

Your new client is now expanding their offices to include running cables between floors. You must core drill and route (175) Cat 5 cables vertically between floors. The cables are .20" in diameter. This is a metal pan, poured with a 3" slab of concrete.

1. What system have you selected for this job?
    - Smooth Firestop Sleeve
    - Threaded Firestop Sleeve
    - Split Sleeve System
    - Membrane Firestop

2. What UL System have you selected?
    - W-L-3230
    - F-A-3091
    - F-A-3019
    - W-J-3109

3. What is the part # for the Sleeve System will you use?
    - TF-1
    - TF-2
    - TF-4
    - SF-5

4. How much mineral wool is required as a minimum?
    - 1 inch
    - 2 inches
    - 3 inches
    - 4 inches

5. What size core drill will you bore for the 4" Threaded Firestop Sleeve?
    - 2 inches
    - 4 inches
    - 4 ½ inches
    - 6 inches

6. How much putty is required as a minimum? READ the listing... (Many people miss this question.)
    - ½”
    - 1 inches
    - 2 inches
    - 3 inches

Scenario 4: New Installation - Membrane Penetration

Engineering is perplexed about routing cables inside his fire-rated walls from above the ceiling grid. He has on many occasions seen contractors just pop a hole in the drywall with a screw driver and drop the cables in and fish them out. NOW, the State Fire Marshal will require the membrane penetration be done with an acceptable "tested" System. He wants the existing membrane penetration violations retrofitted to restore the rating of the wall and has once again hired you. Think about this for a moment and answer the questions below.

1. Individual workstation downtime is not an issue. How will you retrofit existing penetrations?
    - Cut the cables and pull new ones inside a Membrane Firestop.
    - Un-terminate at the jack, pull the cables out, route them through the Membrane Firestop System, fish them back in and re- terminate.
    - Install a bead of caulk and hope the Inspector will pass it.
    - Fill the hole with sheet rock mud.

2. What UL System did you select?
    - W-L-2330
    - W-J-3230
    - W-L-3230
    - F-A-3019

3. What HARDWARE, supplied with the System, is required to ATTACH the Membrane Firestop to the wall?
    - Putty
    - Caulk
    - Expanding anchors
    - Sheet rock mud

Scenario 5: Abandoned Core Holes

Hospital administration loves your work and is once again calling with a new problem. There are seven (7) abandoned core bores on the 3rd floor and the Inspector is demanding something be done about them. They pose a fire hazard. All 7 of them are 4.5" holes in a 3" thick slab.

Five (5) of the holes will be left unused for the foreseeable future. The other two (2) holes will be reused for (110) count (.20) cables, one immediately and the other one in a few months. What should you recommend for the hospital going forward?

1. The 5 unused holes should get:
    - (5) SF-4's
    - (5) TF-4's
    - (5) CBS-4's
    - (5) CBS-4.5's

2. The first 4.5" core to be used immediately will need this product: (Check the outside diameter on the Cable Load Chart of your chosen system.)
    - SF-4
    - TF-4
    - CBS-4
    - Membrane Firestop
3. The second recovered core will not be put into use for a few months. Engineering says they want it ready to go with NO NOTICE. How will you handle this request?
    - Pour concrete in the core hole.
    - Install a Smooth Firestop Sleeve with Smooth End Caps.
    - Install a Threaded Firestop Sleeve with Threaded End Caps.
    - Leave it open.

Scenario 6: Future Proofing a New Building

A new building is being built at the hospital. You are responsible for "future proofing" all cable penetrations for the life of the building. No small task. It is a 5 story building and Admin wants all pathways in the firewalls to be alpha/numerically ID'd for designated crafts to use when they get there. The functions will include the nurse call system, CATV, security, voice, data, and more. What to do? Life of the building? NO STRESS!

Review the UNIQUE Future Proof Plates page before answering the following questions.

1. The first task is to ID all the fire and smoke barriers on blueprints and select penetration points in the hallways. Describe your technique:
    - Mark up blueprints showing fire and smoke walls.
    - Overlay the blueprints to HVC, plumbing, sprinklers, ducts.
    - Select the best location to mount FPP's.
    - Plan each hole in the FPP with its intended use.
    - All of the above.

2. FPP's (Future Proof Plates) will have to be designed to accommodate your plans. You will need to measure twice and calculate several times. The plates will "stagger" down in size as you get further away from the wiring closet. FPP's can be configured to run (3) different size sleeve systems in the same plate. Best practice calls for you to:
    - Add 100% to 200% sleeve space for future voice and data. All others at 100%.
    - Screw the FPP's to the wall studs. Seal with caulk.
    - Following your plan, use permanent marker or labels to ID each hole of the FPP for the craft to see.
    - All of the above.

Congratulations! You've finished the Practice Test. Next, please open the Official Online Certification Test and enter your answers from this Practice Test onto the Official Online Certification Test form.

There will also be a Scenario 7 on the Official Online Certification Test which is required for Certification. In Scenario 7 you will fill out our AHJ Inspector form before submitting your Official Online Certification Test. Please read the instructions carefully!

After you submit both the AHJ form and the Official Online Certification Test, we will grade them and get back to you within 48 hours. KEEP THIS PRACTICE TEST so we can review any answers you might have missed. You may be asked to resubmit answers for any missed questions. Certifications are issued only for scores of 100%.