

NOCTI PLUMBING PRACTICE TEST (SAMPLE)

STUDY GUIDE



**SAMPLE STUDY GUIDE
WITH LIMITED QUESTIONS**

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THE FULL VERSION STUDY GUIDE**

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	15

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. To operate correctly, a residential dishwasher should be supplied with which type of water line?**
 - A. Potable hot water line
 - B. Cold water line
 - C. Tempered water line
 - D. Waste line
- 2. Which two components must be installed on boilers to manage system pressure and protect the plumbing system?**
 - A. Expansion tank and automatic air vent
 - B. Flow check and low water cut off
 - C. Pressure reducing valve and back flow preventer
 - D. Sight gauge and vent
- 3. In blueprint terminology, which plan corresponds to the aerial view of the structure?**
 - A. Floor Plan
 - B. Aerial View
 - C. Cross Section
 - D. Isometric
- 4. What is the primary device that turns on a sewage ejector or effluent pump?**
 - A. Float switch
 - B. Thermostat
 - C. Pressure gauge
 - D. Switch relay
- 5. Fall protection height for scaffolding?**
 - A. 4 feet
 - B. 8 feet
 - C. 10 feet
 - D. 6 feet

- 6. Which piping material is specified for underground building drains in residential construction?**
- A. Cast iron
 - B. DWV PVC Schedule 40 Pipe
 - C. Copper tubing
 - D. ABS
- 7. A DWV piping system relies on gravity at a fall of how many inches per foot?**
- A. 1/16 to 1/8
 - B. 1/8 to 1/2
 - C. 1/2 to 1
 - D. 1 to 2
- 8. What is the best tool to unclog a stopped-up closet?**
- A. Plunger
 - B. Drain snake
 - C. Sump pump
 - D. Closet auger
- 9. The Stop and Waste Valve is primarily used to:**
- A. To Drain Water From a Line When Shut Off
 - B. To Regulate Pressure
 - C. To Prevent Backflow
 - D. To Open Only Partially
- 10. For PEX joints, which statement lists the correct joining methods?**
- A. Solder and glue
 - B. Compression and crimp
 - C. Glue and tape
 - D. Threaded adapters

Answers

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1. A
2. C
3. B
4. A
5. D
6. B
7. B
8. D
9. A
10. B

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Explanations

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1. To operate correctly, a residential dishwasher should be supplied with which type of water line?

- A. Potable hot water line**
- B. Cold water line
- C. Tempered water line
- D. Waste line

Dishwashers clean most effectively when they start with hot, potable water. Hot water helps detergents work better, loosens grease quickly, and supports better sanitizing and drying. Supplying a hot, safe (potable) water line means the unit doesn't have to heat a large amount of cold water, saving energy and ensuring the wash reaches the right temperatures quickly. A cold water supply would force the dishwasher to heat more water internally, increasing cycle time and energy use, and some models rely on a hot supply to meet their designed operating temperatures. The waste line is for draining used water, not supplying fresh water, and a tempered line wouldn't provide the necessary temperatures for proper cleaning.

2. Which two components must be installed on boilers to manage system pressure and protect the plumbing system?

- A. Expansion tank and automatic air vent
- B. Flow check and low water cut off
- C. Pressure reducing valve and back flow preventer**
- D. Sight gauge and vent

When a boiler is fed from the home's water supply, you need to both control the pressure entering the boiler and protect the drinking water supply from any backflow. A pressure reducing valve lowers the incoming water pressure to a safe, stable boiler feed pressure so the system isn't over-pressurized as water heats and expands. A backflow preventer sits in the supply line to stop boiler water from flowing back into the potable water system, preventing contamination if pressures change or a cross-connection exists. Together, these two components keep the boiler operating safely and shield the plumbing from backflow risks. Other devices like expansion tanks, air vents, or sight gauges are important for system hydraulics and maintenance, but they don't provide the same combination of pressure control and backflow protection.

3. In blueprint terminology, which plan corresponds to the aerial view of the structure?

- A. Floor Plan
- B. Aerial View**
- C. Cross Section
- D. Isometric

The main idea this question tests is understanding different blueprint viewpoints and what each one shows. An aerial view is the view from directly above the structure, capturing the overall footprint, roof lines, and how the building sits on the site. It focuses on the external shape and relationship to the surroundings rather than interior details. A floor plan, by contrast, shows the interior layout—rooms, walls, doors, and windows as seen from above but at about floor level. A cross section is like slicing the building vertically to reveal internal features along a cut line. An isometric drawing presents a 3D perspective that shows multiple faces at once. Because the question asks which plan corresponds to the aerial view, the term that matches that top-down, site-wide perspective is the aerial view.

4. What is the primary device that turns on a sewage ejector or effluent pump?

- A. Float switch**
- B. Thermostat
- C. Pressure gauge
- D. Switch relay

A float switch is the sensing device that starts and stops a sewage ejector or effluent pump. It's a buoyant mechanism placed in the pump basin that rises with the wastewater level. When the liquid reaches a preset height, the float switch closes the electrical circuit and powers the pump on. As the pump reduces the level, the float falls, opening the circuit and turning the pump off at a lower threshold. This level-based control is essential for automatic, reliable operation in a wet well or sump. Other devices aren't the primary initiators here. A thermostat watches temperature, not liquid level. A pressure gauge measures system pressure and doesn't directly start the pump. A switch relay can control the power circuit, but it's driven by the float switch (or a control panel) rather than serving as the sensing element that triggers starting the pump.

5. Fall protection height for scaffolding?

- A. 4 feet
- B. 8 feet
- C. 10 feet
- D. 6 feet**

Fall protection on scaffolds is required once you're at a height where a fall could cause serious injury, which in this context is six feet above the lower level. At or above this height, barriers or safety systems must be in place—such as guardrails (typically a 42-inch top rail with a mid-rail) or a personal fall arrest system—so workers don't fall from the platform. The six-foot mark is chosen because it represents a practical threshold for preventing dangerous falls on typical scaffold work. Four feet is below that threshold, so fall protection is not mandatory by the standard in this context. Eight feet and ten feet are higher than the minimum required height, but the question uses six feet as the trigger point, signaling that protection is required starting at that height.

6. Which piping material is specified for underground building drains in residential construction?

- A. Cast iron
- B. DWV PVC Schedule 40 Pipe**
- C. Copper tubing
- D. ABS

Underground drainage systems need a material that can stay buried for many years, resist soil conditions, and form watertight joints that won't leak or corrode. DWV PVC Schedule 40 Pipe is designed specifically for drainage, waste, and vent functions and is widely approved for buried use in residential construction. Its smooth interior reduces friction and sediment buildup, it's resistant to many soils and chemicals found underground, and it joins cleanly with solvent-welded joints that create reliable, leak-tight connections. It's also relatively light, easy to handle, and available in standard sizes, making installation straightforward and cost-effective. Cast iron is durable but heavier and pricier, and often involves more labor for installation. Copper tubing is not suited for drainage and is used for water supply rather than waste. ABS is a valid plastic option in some areas, but PVC Schedule 40 for DWV is more universally specified and accepted in many codes for underground drains.

7. A DWV piping system relies on gravity at a fall of how many inches per foot?

- A. 1/16 to 1/8
- B. 1/8 to 1/2**
- C. 1/2 to 1
- D. 1 to 2

DWV systems rely on gravity to move waste through the pipes, so the horizontal runs must have a small but consistent fall to keep the liquid and solids flowing. The recommended fall range is 1/8 inch per foot to 1/2 inch per foot. This keeps the slope gentle enough to prevent sluggish drainage while avoiding a flow that's so steep it carries solids ahead too quickly or causes other flow problems. In practice, many residential drains use about 1/4 inch per foot, which sits comfortably inside this range. Falls shallower than 1/8 inch per foot can lead to standing water and poor drainage, while slopes steeper than 1/2 inch per foot can cause excessive velocity and flow issues downstream.

8. What is the best tool to unclog a stopped-up closet?

- A. Plunger
- B. Drain snake
- C. Sump pump
- D. Closet auger**

Toilets have a curved trap that a clog sits in, so you need a tool that can navigate that bend without damaging the porcelain. A closet auger is designed exactly for this task: its flexible cable with a curved end can be fed through the toilet bowl and around the trap, allowing the tip to break up or pull the clog through. It provides the reach and control you need in a toilet without scratching the glaze or forcing the blockage deeper. A plunger can sometimes help, but it often can't reach the clog deep in the trap or work effectively on a stubborn blockage. A drain snake is typically used for straight-drain problems and may not maneuver well through a toilet's curve, posing a risk of damage. A sump pump is meant to move water from a sump and won't clear a clog at all. So, the closet auger is the best choice for unclogging a stopped-up toilet.

9. The Stop and Waste Valve is primarily used to:

- A. To Drain Water From a Line When Shut Off**
- B. To Regulate Pressure
- C. To Prevent Backflow
- D. To Open Only Partially

A stop and waste valve is built to shut off a line and then provide a way to drain the water that remains in that section. After the valve is closed, the waste port lets the trapped water escape, making it ideal for winterizing outdoor or service lines and for maintenance work where you want the line completely empty. It isn't used to regulate pressure (that's what a pressure regulator does), nor to prevent backflow (that's the job of a backflow preventer), and it isn't primarily about opening the valve only partially. The drain capability after isolation is what makes it the best choice for draining water from a line when shut off.

10. For PEX joints, which statement lists the correct joining methods?

- A. Solder and glue
- B. Compression and crimp**
- C. Glue and tape
- D. Threaded adapters

PEX joints rely on mechanical joining methods that seal without heat or solvent bonding. The two common ways to create a PEX joint are crimp fittings and compression fittings. In a crimp joint, a metal ring around the pipe is cinched tight with a special tool to lock the pipe into the fitting and form a watertight seal. In a compression joint, a nut tightens a ferrule or sleeve to compress the PEX into the fitting, also sealing the connection. Glue and solder aren't used with PEX—glue is for solvent-based plastics like PVC, and soldering is for copper and requires heat that can damage PEX. Tape isn't a method for sealing PEX joints, and while threaded adapters can connect PEX to other materials, the standard and reliable joining methods for PEX are compression and crimp.

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Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://noctiplumbing.examzify.com>

We wish you the very best on your exam journey. You've got this!

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