



PSI Services LLC

<https://test-takers.psiexams.com/ohconst>

# OHIO CONSTRUCTION INDUSTRY LICENSING BOARD DEPARTMENT OF COMMERCE



## DIVISION OF INDUSTRIAL COMPLIANCE CONTRACTOR TRADE EXAMINATIONS CANDIDATE INFORMATION BULLETIN

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## EXAMINATIONS BY PSI

This Candidate Information Bulletin provides you with information about the examination and application process for Contractors Licensure in the State of Ohio.

Eligibility for examination is determined by the Ohio Construction Industry Licensing Board (OCILB).

The Board has contracted with PSI to conduct its examination program. PSI provides examinations through a network of computer examination centers in Ohio and in many areas throughout the United States. PSI works closely with the State to be certain that examinations meet local as well as national requirements in basic principles and examination development standards.

### SUBMITTING YOUR EXAMINATION APPLICATION

You must obtain an examination application form from the OCILB or online at

<http://www.com.ohio.gov/dico/OCILB/LicenseQualificationProcess.aspx>. Complete the application and mail it with the appropriate fees and other required information to the OCILB. The OCILB will review your application to determine your eligibility to sit for an exam.

All applicants for contractor commercial licenses **must** take the Ohio Contractor's Business and Law exam in addition to any required trade-specific examination. If you decide to become licensed in another trade at a later date, you only have to pass the Business and Law examination once every three years.

You will be notified by mail of the OCILB's decision. If the OCILB approves your application you are required to obtain a Federal and State background check prior to sitting for the examination. OCILB approval is valid for one year. If you have not obtained a background check or taken your examination after one year, you will need to reapply for eligibility to sit for an exam.

**For questions about applications and licensing, contact:**

Ohio Construction Industry Licensing Board  
6606 Tussing Road  
Reynoldsburg, OH 43068  
E-Mail [dic.ocilb@com.state.oh.us](mailto:dic.ocilb@com.state.oh.us)  
Phone: 614.644.3493

<http://www.com.ohio.gov/dico/OCILB/>

## EXAMINATION SCHEDULING PROCEDURES

Once you have been approved by the Board, you are responsible for contacting PSI to schedule an appointment to take the examination.

➤ Once the OCILB notifies PSI that you are eligible to take an examination, you have one year to schedule and take your examination. After one year, your examination eligibility will expire and you will need to submit another application form before being able to take an examination.

➤ If you fail an examination portion, you must wait 60 days before retesting. You can retest up to 5 times in a year.

Examination Fee

\$69

**NOTE: REGISTRATION FEES ARE NOT REFUNDABLE OR TRANSFERABLE**

The fee is for each registration, whether you are taking the examination for the first time or repeating.

[ONLINE \(HTTPS://TEST-TAKERS.PSIEXAMS.COM/OHCONST\)](https://test-takers.psiexams.com/ohconst)

For the fastest and most convenient test scheduling process, PSI recommends that candidates register for their exams using the Internet. Candidates register online by accessing PSI's registration website at <https://test-takers.psiexams.com/ohconst>. Internet registration is available 24 hours a day.

Log onto PSI's website and select Sign in / Create Account. Select Create Account. You are now ready to pay and schedule for the exam. Enter your zip code and a list of the testing sites closest to you will appear. Once you select the desired test site, available dates will appear.

[TELEPHONE \(855\) 257-1621](tel:8552571621)

For telephone registration, you will need a valid credit card (VISA, MasterCard, American Express or Discover). PSI registrars are available Monday through Friday between 7:30 am and 10:00 pm, and Saturday-Sunday between 9:00 am and 5:30 pm, Eastern Time.

[RESCHEDULING/CANCELING AN EXAMINATION APPOINTMENT](#)

You may cancel and reschedule the same examination without forfeiting your fee if your *cancellation notice is received 2 days before the scheduled examination date*. (For example, for a Monday appointment, the cancellation notice would need to be received on the previous Saturday.) You may reschedule online at <https://test-takers.psiexams.com/ohconst> or call PSI at (855) 257-1621.

**Note: A voice mail message is not an acceptable form of cancellation. Please use the PSI Website or call PSI and speak directly to a Customer Service Representative.**

[MISSED APPOINTMENT OR LATE CANCELLATION](#)

If you miss your appointment, you will not be able to take the examination as scheduled. Further, you will forfeit your examination fee, if you:

- Do not cancel your appointment 2 days before the scheduled examination date;
- Do not appear for your examination appointment;
- Arrive after examination start time;
- Do not present proper identification when you arrive for the examination.

[EXAM ACCOMMODATIONS](#)

All PSI examination centers are equipped to provide access in accordance with the Americans with Disabilities Act (ADA) of 1990, and exam accommodations will be made in meeting a candidate's needs. A candidate with a disability or a candidate who would otherwise have difficulty taking the examination should request for alternative arrangements by [Clicking Here](#).

Candidates granted accommodation in accordance with the ADA, MUST schedule their examination by telephone and speak directly with a PSI registrar.

#### EXAMINATION CENTER CLOSING FOR AN EMERGENCY

In the event that severe weather or another emergency forces the closure of an examination center on a scheduled examination date, your examination will be rescheduled. PSI personnel will attempt to contact you in this situation. However, you may check the status of your examination schedule by calling (855) 257-1621 or on our website at <https://test-takers.psiexams.com/ohconst>.

### EXAMINATION SITE LOCATION

#### **Akron**

231 Springside Dr, Suite 125  
AKRON, OH 44333

FROM I-77 S - HEAD SOUTHWEST ON I-77S. TAKE EXIT 137A TO MERGE ONTO OH18 E TOWARDS FAIRLAWN. GO ABOUT ½ MILE THEN TURN LEFT ONTO SPRINGSIDE DR. GO ALMOST ANOTHER ½ MILES AND THE BUILDING WILL BE ON THE RIGHT.

#### **Cambridge**

1300 Clark Street, Suite #5  
Cambridge, OH 43725

FROM I-70E OR I-70 W MERGE ONTO I-77 N VIA EXIT 180B OR TOWARD CLEVELAND. TAKE THE US 22/EXIT 47 TOWARD CAMBRIDGE TURNING LEFT ONTO CADIZ RD/US-22. TURN RIGHT ONTO BRENTON RD. (NEAR CORPORATION LIMITS AND MARKED WITH SIGN TO HOSPITAL). TURN RIGHT ONTO OAKLAND BLVD. CONTINUE THROUGH THE TRAFFIC LIGHT MAKING A SLIGHT RIGHT ONTO CLARK ST. TURN RIGHT INTO THE NORTH STAR SHOPPING PLAZA. THE PSI OFFICE IS LOCATED ABOUT HALFWAY INTO THE SHOPPING PLAZA.

#### **Cincinnati**

Cincinnati-Hamilton - Tri-State Professional Training and Testing Center

2820 Bobmeyer Rd., Hangar C-7  
Hamilton, OH 45015

THE TESTING CENTER IS LOCATED IN HANGAR C-7 AT THE OFFICE AND HANGAR COMPLEX ADJACENT TO THE BUTLER COUNTY REGIONAL AIRPORT. THE CORRECT ADDRESS IS 2820 BOBMEYER ROAD, HANGAR C-7 HAMILTON, OH 45015. IF YOU'VE ARRIVED AT THE TERMINAL BUILDING AND SEE A SHELL GASOLINE SIGN, YOU ARE AT THE WRONG LOCATION. EXIT THE TERMINAL BUILDING AND MAKE A RIGHT TURN (HEADING WEST) ON BOBMEYER ROAD. THE NEXT RIGHT TURN IS AN ENTRANCE GATE TO THE OFFICE AND HANGAR COMPLEXES. HANGAR C-7 WITH THE RED AWNING IS LOCATED ON THE LEFT UPON ENTERING THE GATE.

#### **Cleveland**

7029 Pearl Rd, Suite 320  
Middleburg Heights, OH 44130

FROM I-71S - TAKE EXIT 235 FOR BAGLEY RD. USE THE LEFT TWO LANES TO TURN LEFT ONTO BAGLEY RD. TURN LEFT ONTO PEARL RD. THE OFFICE COMPLEX WILL BE ON THE RIGHT.

#### **Columbus South**

6431 Alum Creek Dr, Suite I  
Groveport, OH 43125

IF COMING FROM (CLEVELAND) 270W OR 270S TOWARD CINCINNATI, TAKE ALUM CREEK EXIT. TURN RIGHT TOWARD GROVEPORT. TURN RIGHT AT SPIEGEL DRIVE AND AN IMMEDIATE RIGHT INTO FIRST PARKING LOT ON RIGHT.

#### **Columbus North**

6397 Emerald Parkway, Suite 150  
Dublin, OH 43016

FROM I-270 W TAKE THE TUTTLE CROSSING BLVD EXIT AND TURN RIGHT. TURN LEFT ONTO BLAZER PKWY. TURN LEFT ONTO RINGS ROAD. TURN LEFT ONTO EMERALD PKWY.

#### **Hamilton**

Tri-State Professional Training and Testing Center\*  
2820 Bobmeyer Rd  
Hamilton, OH 45015

GET ON I-71 S - FOLLOW I-71 S TO OH-4 N/SPRINGFIELD PIKE IN SPRINGDALE. TAKE EXIT 41 FROM I-275 W, CONTINUE ON OH-4 N. TAKE OH-4 BYPASS N TO BOBMEYER RD IN FAIRFIELD 2820 BOBMEYER RD

#### **Macedonia - Test Spots - Cleveland East**

8536 Crow Dr, Ste GL-55  
Macedonia, OH 44056

TESTSPOTS - MACEDONIA IS LOCATED IN THE MACEDONIA PROFESSIONAL CTR. CROW DR IS IN THE CENTER OF MACEDONIA ON N SIDE OF RT. 82, .4 MILE E OF I-271 EXIT 19 AT RT. 82, .9 MILE E OF RT. 8 AND 82, AND 2.7 MILES W OF THE I-480 EXIT AT RT. 82 IN TWINSBURG. TURN N AT INTERSECTION OF RT. 82 AND CROW DR. THERE IS A 5TH3RD BANK ON CORNER AND LARGE GAZEBO. THE MACEDONIA PROFESSIONAL CTR IS THE 2ND BLDG ON LEFT, OPPOSITE PLANET FITNESS. FREE PARKING IS DIRECTLY IN FRONT OF MAIN ENTRANCE TO BLDG. AND EXTENDING TO RT. 82. ENTER MAIN LOBBY, TAKE ELEVATOR DOWN ONE LEVEL, FOLLOW SIGNS AND ARROWS. RESTROOMS ARE LOCATED OPPOSITE ELEVATORS ON 1ST AND 2ND FLOORS -USE KEYPAD CODE- 1234. FOR ADA BLDG. ACCESS- FOLLOW DRIVEWAY BEHIND BLDG. FOR DROP OFF OR PARK IN FRONT OF THE GARAGE DOOR AT THE TEST SPOTS ADA ENTRANCE.

#### **Maumee/Toledo**

1446 S. Reynolds Road, Suite 201  
Maumee, OH 43537

FROM THE NORTH OR SOUTH: TAKE I-75 TO I-475/US 23, BYPASSING DOWNTOWN TOLEDO. FROM THE NORTH, USE EXIT 204; AND FROM THE SOUTH, USE EXIT 192 TO MERGE ONTO I-475/US 23. TAKE I-475/US 23 TOWARD MAUMEE, AND EXIT AT DUSSEL DRIVE/SALISBURY ROAD (EXIT 6). DRIVE EAST ON DUSSEL DRIVE, TOWARD MAUMEE.

#### **Troy**

Brainseed Testing Center  
1100 Wayne Street, Suite 5200  
Troy, OH 45373

FROM I-75 SOUTH TAKE THE STATE ROUTE 55 EXIT #73 FOR TROY/LUDLOW FALLS. TURN LEFT AT THE LIGHT AT THE EXIT TOWARDS TROY ONTO ST RT 55 (BECOMES WEST MARKET ST). FOLLOW ST RT 55/ MARKET ST TO THE FOURTH LIGHT AFTER THE EXIT. TURN LEFT ONTO RIDGE AVE. CONTINUE TO WAYNE STREET AND TURN LEFT. TURN LEFT ONTO SUMMIT AVENUE. ENTER THE PARKING LOT ON THE RIGHT BEHIND THE LARGER BUILDING THAT USED TO BE STOUDEUR MEMORIAL HOSPITAL. THE TEST SITE IS ON THE LEFT IN A SMALL BUILDING.

#### **Wadsworth**

Wadsworth - Flight Services of Wadsworth  
840 Airport Rd  
Wadsworth, OH 44281

FROM CLEVELAND: I-77S, KEEP RIGHT TO TAKE OH-21 S VIA EXIT 136 TOWARDS MASSILLON. MERGE ONTO I-76 W/US-224 W TOWARDS LODI, TAKE THE OH-57 EXIT, EXIT 7, TOWARD RITTMAN/MEDINA

Additionally, PSI has examination centers in many other regions across the United States. You may take this examination at any of these locations. Once you have paid for the examination, enter your zip code and a list of the testing sites closest to you will appear.

## REPORTING TO THE EXAMINATION SITE

On the day of the examination, you should arrive 15 minutes before your appointment. This extra time is for sign-in, identification, and familiarizing you with the examination process. *If you arrive late, you may not be admitted to the examination center and you will forfeit your examination registration fee.*

### REQUIRED IDENTIFICATION

Candidates must register for the exam with their LEGAL first and last name as it appears on their government issued identification. Candidates are required to bring one (1) form of valid (non-expired) signature-bearing identification to the examination center. If the candidate fails to bring proper identification or the candidate names do not match, the candidate will not be allowed to test and their examination fee will not be refunded.

#### **PRIMARY IDENTIFICATION (with photo)**

- State issued driver's license
  - State issued identification card
  - US Government Issued Passport
  - US Government Issued Military Identification Card
  - US Government Issued Alien Registration Card
  - Canadian Government Issued ID
- NOTE: ID must contain candidate's photo, be valid and unexpired.

### SECURITY PROCEDURES

The following security procedures apply during examinations:

- You will be provided an online calculator. This is the only calculator that you may use.
- You will be provided a piece of scratch paper and a pencil. These must be returned to the proctor at the end of the examination.
- Candidates may take only approved items into the examination room.
- All personal belongings of candidates, with the exception of close-fitting jackets or sweatshirts, should be placed in the secure storage provided at each site prior to entering the examination room. Items may not exceed 15" x 15". Personal belongings **include, but are not limited to**, the following items:
  - **Electronic devices of any type**, including cellular / mobile phones, recording devices, electronic watches, cameras, pagers, laptop computers, tablet computers (e.g., iPads), music players (e.g., iPods), smart watches, radios, or electronic games.
  - **Bulky or loose clothing or coats** that could be used to conceal recording devices or notes, including coats, shawls, hooded clothing, heavy jackets, or overcoats.
  - **Hats or headgear not worn for religious reasons** or as religious apparel, including hats, baseball caps, or visors.
  - **Other personal items**, including purses, notebooks, reference or reading material, briefcases, backpacks, wallets, pens, pencils, other writing devices, food, drinks, and good luck items.

- Person(s) accompanying an examination candidate may not wait in the examination center, inside the building or on the building's property. This applies to guests of any nature, including drivers, children, friends, family, colleagues or instructors.
- No smoking, eating, or drinking is allowed in the examination center.
- During the check in process, all candidates will be asked if they possess any prohibited items. Candidates may also be asked to empty their pockets and turn them out for the proctor to ensure they are empty. The proctor may also ask candidates to lift up the ends of their sleeves and the bottoms of their pant legs to ensure that notes or recording devices are not being hidden there.
- Proctors will also carefully inspect eyeglass frames, tie tacks, or any other apparel that could be used to harbor a recording device. Proctors will ask to inspect any such items in candidates' pockets.
- If prohibited items are found during check-in, candidates shall put them in the provided secure storage or return these items to their vehicle. PSI will not be responsible for the security of any personal belongings or prohibited items.
- Any candidate possessing prohibited items in the examination room shall immediately have his or her test results invalidated, and PSI shall notify the examination sponsor of the occurrence.
- Any candidate seen giving or receiving assistance, found with unauthorized materials, or who violates any security regulations will be asked to surrender all examination materials and to leave the examination center. All such instances will be reported to the Department and you may be denied licensure.
- Copying or communicating examination content is a violation of a candidate's contract with PSI, and federal and state law. Either may result in the disqualification of examination results and may lead to legal action.
- Once candidates have been seated and the examination begins, they may leave the examination room only to use the restroom, and only after obtaining permission from the proctor. Candidates will not receive extra time to complete the examination.

## TAKING THE EXAMINATION BY COMPUTER

The examination will be administered via computer. You will be using a mouse and computer keyboard.

### TUTORIAL

Before you start your examination, an introductory tutorial is provided on the computer screen. The time you spend on this tutorial, up to 15 minutes, DOES NOT count as part of your examination time. Sample questions are included following the tutorial so that you may practice answering questions and reviewing your answers.

### TEST QUESTION SCREEN

One question appears on the screen at a time. During the examination, minutes remaining will be displayed at the top of the screen and updated as you record your answers.

**IMPORTANT:** After you have entered your responses, you will later be able to return to any question(s) and change your response, provided the examination time has not run out.

## PRETEST QUESTIONS

In addition to the number of questions per examination, up to ten “pretest” questions may be administered to candidates during the examinations. These questions will not be scored and the time taken to answer them will be counted for the examination time allowed. The administration of such non-scored experimental questions is an essential step in developing future licensing examinations.

## EXAMINATION REVIEW

PSI, in cooperation with the Board, will be continually evaluating the examinations being administered to ensure that the examinations accurately measure competency in the required knowledge areas. While taking the examination, examinees will have the opportunity to provide comments on any questions, by clicking the Comments link on the function bar of the test question screen.

Your comments regarding the questions and the examinations are welcomed. Comments will be analyzed by PSI examination development staff. While PSI does not respond to individuals regarding these comments, all substantive comments are reviewed. If a discrepancy is found during the comment review, PSI and the Board may re-evaluate candidates’ results and adjust them accordingly. **This is the only review of the examination available to candidates.**

## **SCORE REPORTING**

Your examination result will be given to you immediately following completion of the examination. You will receive a printed score report marked “pass” or “fail”. The fail score report will include diagnostic information. Candidates may use the diagnostic report as a guide for studying before their next test administration.

## DUPLICATE SCORE REPORTS

You may request a duplicate score report after your examination by emailing [scorereport@psionline.com](mailto:scorereport@psionline.com).

## **TIPS FOR PREPARING FOR YOUR LICENSE EXAMINATION**

The following suggestions will help you prepare for your examination.

- Planned preparation increases your likelihood of passing.
- Start with a current copy of this Candidate Information Bulletin and use the examination content outline as the basis of your study.
- Read study materials that cover all the topics in the content outline.
- Take notes on what you study. Putting information in writing helps you commit it to memory and it is also an excellent business practice. Discuss new terms or concepts as frequently as you can with colleagues. This will test your understanding and reinforce ideas.
- Your studies will be most effective if you study frequently, for periods of about 45 to 60 minutes.

Concentration tends to wander when you study for longer periods of time.

## **EXAMINATION REFERENCE MATERIAL AND CONTENT OUTLINE**

If a test question answer could differ because of conflicting information in test reference sources, a legal requirement such as a code, law or regulation overrides any other reference. If two legal requirements appear to conflict, the state-specific code, law or regulation overrides the national one. Information from sources on the test reference list override information from other sources or persons.

## **CONTRACTOR’S BUSINESS AND LAW EXAMINATION**

All contractor license classifications **must** take the Business and Law exam in addition to any required trade-specific exam.

# of Questions	% Required to Pass	Time Allowed
50	70%	2 Hours
5 Pretest Items	Not Scored	

### CONTENT OUTLINE

Subject Area	# of Items
Business Org	2
Licensing	3
Estimating and Bidding	8
Contract Management	5
Project Management	4
Insurance and Bonding	5
OSHA Record Keeping and Safety	5
Personnel Regulations	5
Financial Management	6
Tax Laws	5
Lien Laws	2
Pretest Items	5

### REFERENCE LIST

The reference material listed below was used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. **Except for Code books**, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based **only** on the edition of the Code book that is listed.

This examination is OPEN BOOK. The following reference is **provided** in the testing center. No highlighting or notes of any sort may be made in the book during the exam.

- *Contractor’s Guide to Business, Law, and Project Management - Ohio*, 4<sup>th</sup> Edition, National Association of State Contractors Licensing Agencies (NASCLA), <https://store.nascla.org/products/ohio-construction-industry-licensing-board-3rd-edition-tabs-bundle>

Candidates may also bring their own reference to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in. Any candidate caught writing in the references during the examination will have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated.

- *Electrical Field Reference Handbook*: Revised for the NEC 2008, [www.textbooks.com](http://www.textbooks.com) or *IBEW-NECA Field Reference Book*, National Joint Apprenticeship and Training Committee for the Electrical Industry

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in. Any candidate caught writing in the references during the examination will have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated.

## OHIO ELECTRICAL CONTRACTOR EXAMINATION

Electrical contractors must have the knowledge and skill to install, alter, add or change any electrical wires fixtures, appliances, apparatus, raceways, conduit or any part thereof that generates transmits, transforms or utilizes electrical energy in any form for light, heat, power or communications.

# of Questions	% Required to Pass	Time Allowed
100	70%	4 Hours
10 Pretest Items	Not Scored	

### CONTENT OUTLINE

Subject Area	# of Items
General Electrical Knowledge	10
Transformers and Equipment	12
Service Feeders and Branch Circuits	16
Raceways, Boxes, and Panelboards	10
Conductors and Cables	12
Control Devices	8
Motors and Generators	12
Utilization Equipment	8
Special Occupancies and Equipment	12
Pretest Items	10

### REFERENCE LIST

The reference material listed below was used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. **Except for Code books**, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based **only** on the edition of the Code book that is listed.

This examination is OPEN BOOK.

**The following reference material is allowed in the examination center:**

- *Ugly's Electrical References*, 2023, George V. Hart, Jones and Bartlett, <http://www.uglybooks.com/products.php?cat=23>
- *NFPA 70 - National Electrical Code, and/or The National Electrical Code Handbook*, 2023, National Fire Protection Association (NFPA), <http://www.nfpa.org/> (Either reference on its own is sufficient; however, candidates are permitted to use both references.)

## OHIO HVAC CONTRACTOR EXAMINATION

Those who are qualified to install, maintain, repair, fabricate, alter or extend central air conditioning, heating and ventilating, including ductwork within a complete system and all appurtenances, apparatus, piping vessels, ducts and insulation used in connection therewith.

# of Questions	% Required to Pass	Time Allowed
100	70	4 Hours
10 Pretest Items	Not Scored	

### CONTENT OUTLINE

Subject Area	# of Items
General Knowledge and Requirements	10
Warm Air Heating and Air Distribution	25
Ventilation and Exhaust Systems	15
Air Conditioning	10
Piping Systems	10
Equipment and Appliances	20
Testing and Inspection	10
Pretest Items	10

### REFERENCE LIST

The reference material listed below was used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. **Except for Code books**, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based **only** on the edition of the Code book that is listed.

This examination is OPEN BOOK.

**The following reference material is allowed in the examination center:**

- *International Fuel Gas Code*, 2021, International Code Council, <http://shop.iccsafe.org/>

- *Ohio Mechanical Code, 2024*, International Code Council, <http://shop.iccsafe.org/>
- *Modern Refrigeration and Air Conditioning, 22nd Edition*, <https://psionlinestore.com/modern-refrigeration-and-air-conditioning-21st-edition>

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in. Any candidate caught writing in the references during the examination will have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated.

<https://www.amazon.com/Boiler-Operators-Guide-Mechanical-Engineering/dp/0070365741>

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in. Any candidate caught writing in the references during the examination will have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated.

### OHIO HYDRONICS CONTRACTOR EXAMINATION

Hydronics contractors must have the knowledge and skill to construct, install, alter, repair, maintain or service any steam and hot-water heating or chilled-water refrigeration systems.

# of Questions	% Required to Pass	Time Allowed
50	70	2.5 Hours
2 Pretest Items	Not Scored	

#### CONTENT OUTLINE

Subject Area	# of Items
General Knowledge	16
Heating Equipment	10
Piping, Pumps, Valves	10
Fuel Gas and Oil	1
Venting	5
Controls	5
Tests and Inspections	3
Pretest Items	2

#### REFERENCE LIST

The reference material listed below was used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. **Except for Code books**, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based **only** on the edition of the Code book that is listed.

This examination is OPEN BOOK.

*The following reference material is allowed in the examination center:*

- *Ohio Administrative Code, Chapter 4101:4 Boiler and Unfired Pressure Vessel Rules, 2015*, Ohio Division of Industrial Compliance, <http://codes.ohio.gov/oac/4101%3A4>
- *Ohio Mechanical Code, 2024*, International Code Council, <http://shop.iccsafe.org/>
- *Boiler Operator's Guide, 4<sup>th</sup> Edition, 1998, or 5<sup>th</sup> Edition, 2020*, McGraw-Hill Publishing, Inc.,

### OHIO PLUMBING CONTRACTOR EXAMINATION

The practice, materials and fixtures utilized in the installation, maintenance, extension and alteration of all piping, fixtures, plumbing appliances and plumbing appurtenances, within or adjacent to any structure, in connection with sanitary drainage or storm drainage facilities; venting systems; and public or private water supply systems.

# of Questions	% Required to Pass	Time Allowed
100	70	4 Hours
1 Pretest Item	Not Scored	

#### CONTENT OUTLINE

Subject Area	# of Items
General Knowledge	8
General Regulations	20
Plumbing Fixtures	6
Water Supply Systems	10
Drainage, Waste, and Sanitary Vents	24
Indirect Wastes	3
Roof Drain Piping	4
Specialty Plumbing	5
Isometric Analysis	20
Pretest Items	1

#### REFERENCE LIST

The reference material listed below was used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. **Except for Code books**, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based **only** on the edition of the Code book that is listed.

This examination is OPEN BOOK.

*The following reference material is allowed in the examination center:*

- *Ohio Plumbing Code, 2024*, International Code Council, <http://shop.iccsafe.org/>
- *International Fuel Gas Code, 2024*, International Code Council, <http://shop.iccsafe.org/>
- *Mathematics for Plumbers and Pipefitters, 8th Edition, 2013*, <http://www.cengage.com/>

- *Modern Plumbing, 9th Edition, 2022*, Goodheart-Willcox Company, Inc, <https://www.g-w.com/modern-plumbing-2010>

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in. Any candidate caught writing in the references during the examination will have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated.

examination session. However, references may not be written in. Any candidate caught writing in the references during the examination will have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated.

## OHIO REFRIGERATION CONTRACTOR EXAMINATION

Tests a candidate's knowledge to install, maintain, repair or alter any system of refrigeration unlimited to tons or horsepower provided, however, that such refrigeration is intended to be used for the purpose of food and product preservation and is not to be used for comfort systems.

# of Questions	% Required to Pass	Time Allowed
60	70	3 Hours
10 Pretest Items	Not Scored	

### CONTENT OUTLINE

Subject Area	# of Items
General Knowledge & Requirements	18
Refrigeration Piping	12
Refrigerants	6
Refrigeration Systems & Controls	15
Testing & Inspection	9
Pretest Items	10

### REFERENCE LIST

The reference material listed below was used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. **Except for Code books**, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based **only** on the edition of the Code book that is listed.

This examination is OPEN BOOK.

*The following reference material is allowed in the examination center:*

- *Ohio Mechanical Code, 2024*, International Code Council, <http://shop.iccsafe.org/>
- *Modern Refrigeration and Air Conditioning, 22nd Edition*, <https://psionlinestore.com/modern-refrigeration-and-air-conditioning-21st-edition>

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the

