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PSI Services LLC 3210 E Tropicana Las Vegas, NV 89121 https://test-takers.psiexams.com/ohbo

# **OHIO DEPARTMENT OF COMMERCE**



Examinations by PSI

# DIVISION OF INDUSTRIAL COMPLIANCE STEAM ENGINEERS/BOILER OPERATORS EXAMINATIONS CANDIDATE INFORMATION BULLETIN

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Please refer to our website to check for the most updated information at https://test-takers.psiexams.com/ohbo

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### **EXAMINATIONS BY PSI**

This Candidate Information Bulletin provides you with information about the examination and application process for Steam Engineer/Boiler Operator Licensure in the State of Ohio.

Eligibility for examination is determined by the Ohio Department of Commerce.

The Department 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 Ohio Department of Commerce or online at **www.com.state.oh.us**. Complete the application and mail it with the appropriate fees. Your application will be reviewed to determine your eligibility to sit for an examination.

Upon acceptance from the Department, you will receive an approval notification in the mail.

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

Ohio Department of Commerce Division of Industrial Compliance 6606 Tussing Road, P.O. Box 4009 Reynoldsburg, OH 43068-9009 Phone: 614.644.2223 www.com.state.oh.us

### **EXAMINATION SCHEDULING PROCEDURES**

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

Examination Fee

#### \$100

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

The fee is for <u>each</u> registration, whether you are taking the examination for the first time or repeating. You may take the examination as many times as needed.

#### **INTERNET REGISTRATION**

For the fastest and most convenient test scheduling process, PSI recommends that candidates register for their exams using the Internet. In order to register over the Internet, candidates will need to have a valid credit card (Visa, MasterCard, American Express or Discover). Candidates register online by accessing PSI's registration website at <a href="https://test-takers.psiexams.com/ohbo">https://test-takers.psiexams.com/ohbo</a>. Internet registration is available 24 hours a day. In order to register by Internet, complete the

steps below. For internet registration, you will need a valid credit card (Visa, MasterCard, American Express or Discover).

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 REGISTRATION**

Call (855) 746-8173, PSI registrars are available to receive payment and to schedule your appointment for the examination. Please call Monday through Friday between 7:30 am and 10:00 pm, or Saturday-Sunday, between 9:00 am and 5:30 pm, Eastern Time.

#### **RETAKING A FAILED EXAMINATION**

It is not possible to make a new examination appointment on the same day you have taken an examination; this is due to processing and reporting scores. A candidate who tests unsuccessfully on a Wednesday can call the next day, Thursday, and retest as soon as Friday, depending upon space availability. You may access a registration form at <u>https://testtakers.psiexams.com/ohbo</u>. You may also call PSI at (855) 579-4637.

#### **CANCELING AN EXAMINATION APPOINTMENT**

You may cancel and reschedule an examination appointment 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 call PSI at (855) 579-4637.

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

#### MISSED APPOINTMENT OR LATE CANCELLATION

Your registration will be invalid, you will not be able to take the examination as scheduled, and you will forfeit your examination fee, if you:

- Do not cancel your appointment 2 days before the schedule 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 <u>Clicking Here</u>.

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

#### EXAMINATION SITE CLOSING FOR AN EMERGENCY

In the event that severe weather or another emergency forces the closure of an examination site 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) 746-8173. Every effort will be made to reschedule your examination at a convenient time as soon as possible. You may also check our website at https://testtakers.psiexams.com/ohbo.

# **EXAMINATION SITE LOCATION**

The examinations are administered at the examination centers listed below:

#### **AKRON**

231 Springside Dr, Suite 125 AKRON, OH 44333

FROM 1-77 S - HEAD SOUTHWEST ON 1-77S. 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.

FROM I-77 N - HEAD NORTH ON I-77 N. 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.

FROM OH-18 E - TURN LEFT ONTO SPRINGSIDE DR. GO ALMOST ANOTHER ½ MILES AND THE BUILDING WILL BE ON THE RIGHT. FROM OH-18W - TURN RIGHT 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 LIMINTS 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. WE ARE LOCATED IN SUITE 320.

#### **Columbus North**

6397 Emerald Pkwy, Suite 150 Dublin, Ohio 43017 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.

#### **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. IF COMING FROM 270 E OR 270S TOWARD WHEELING, EXIT ALUM CREEK. TURN LEFT TOWARD GROVEPORT. TURN RIGHT ON SPIEGEL DR. AND TURN AN IMMEDIATE RIGHT INTO FIRST PARKING LOT ON RIGHT.

#### Toledo

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

FROM THE NORTH OR SOUTH: TAKE 1-75 TO 1-475/US 23, BYPASSING DOWNTOWN TOLEDO. FROM THE NORTH, USE EXIT 204; AND FROM THE SOUTH, USE EXIT 192 TO MERGE ONTO 1-475/US 23. TAKE 1-475/US 23 TOWARD MAUMEE, AND EXIT AT DUSSEL DRIVE/SALISBURY ROAD (EXIT 6). DRIVE EAST ON DUSSEL DRIVE, TOWARD MAUMEE.

FROM THE EAST OR WEST: TAKE THE OHIO TURNPIKE TO EXIT 59, THE MAUMEE - TOLEDO EXIT. UPON EXITING THE TURNPIKE, DRIVE SOUTH ON SOUTH REYNOLDS ROAD (TOWARD MAUMEE) TO DUSSEL DRIVE. TURN LEFT ON DUSSEL DRIVE.

PSI IS LOCATED ON THE SE CORNER OF DUSSEL DRIVE AND SOUTH REYNOLDS ROAD, IN THE "RMS" BUILDING. ENTRANCES TO THE PARKING LOT AND BUILDING FACE DUSSEL DRIVE. USE THE CENTER (MAIN) BUILDING ENTRANCE, AND FROM THE LOBBY TAKE THE STAIRS/ELEVATOR TO THE SECOND FLOOR. PSI IS IN SUITE 201.

#### 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 STOUDER MEMORIAL HOSPITAL. THE TEST SITE IS ON THE LEFT IN A SMALL BUILDING. FROM I-75 NORTH TAKE THE STATE ROUTE 55 EXIT #73 FOR TROY/LUDLOW FALLS. TURN RIGHT AT THE LIGHT ONTO ST RT 55 (BECOMES WEST MARKET ST.). FOLLOW ST RT 55/MARKET TO THE THIRD 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 STOUDER MEMORIAL HOSPITAL. THE TEST SITE IS ON THE LEFT IN A SMALL BUILDING. IT IS NOT LOCATED INSIDE THE LARGER BUILDING.

Additionally, PSI has examination centers in many other regions across the United States. You may take the written examination at any of these locations by following the instructions on the Exam Accommodations Request Form found at the end of this bulletin.

# **REPORTING TO THE EXAMINATION SITE**

On the day of the examination, you should arrive 30 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 site and you will forfeit your examination registration fee.

#### **REQUIRED IDENTIFICATION AT EXAMINATION SITE**

You must provide 1 form of identification. The identification must match the name you scheduled with.

NOTE: ID must contain candidate's signature, photo, be valid and unexpired.

- State issued driver's license
- State issued identification card
- US Government Issued Passport
- US Government Issued Military Identification Card (not allowed for remote testing)
- US Government Issued Alien Registration Card
- Canadian Government Issued ID

Failure to bring the proper documentation invalidates your registration. You will not be able to take the examination as scheduled, and you will forfeit your examination fee.

#### SECURITY PROCEDURES

The following security procedures will apply during the examination:

- Only non-programmable calculators that are silent, battery-operated, do not have paper tape printing capabilities, and do not have a keyboard containing the alphabet will be allowed in the examination site.
- Candidates may take only approved items into the examination room.
- All personal belongings of candidates should be placed in the secure storage provided at each site prior to entering the examination room. 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. For security purposes outerwear such as, but not limited to: open sweaters, cardigans, shawls, scarves, hoodies, vests, jackets and coats are not permitted in the testing room. In the event you are asked to remove the outerwear, appropriate attire, such as a shirt or blouse should be worn underneath.
  - 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.
- Although secure storage for personal items is provided at the examination site for your convenience, PSI is not

responsible for any damage, loss, or theft of any personal belongings or prohibited items brought to, stored at, or left behind at the examination site. PSI assumes no duty of care with respect to such items and makes no representation that the secure storage provided will be effective in protecting such items. If you leave any items at the examination site after your examination and do not claim them within 30 days, they will be disposed of or donated, at PSI's sole discretion.

- 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 on an examination, 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 examination sponsor.
- Copying or communicating examination content is 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. Candidate 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.

#### **EXPERIMENTAL QUESTIONS**

In addition to the number of questions per examination, a small number of five to ten "experimental" questions may be administered to candidates during the examinations. These questions will not be scored and the time taken to answer them will not count against examination time. The administration of such non-scored experimental questions is an essential step in developing future licensing examinations.

#### **EXAMINATION REVIEW**

PSI, in cooperation with the Department, will be consistently evaluating the examinations being administered to ensure that the examinations accurately measure competency in the required knowledge areas. Comments may be entered by clicking the Comments link on the function bar of the test question screen.

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 Department may re-evaluate candidates' results and adjust them accordingly. This is the only review of the examination available to candidates.

# **SCORE REPORTING**

Your score will be given to you immediately following completion of the examination. The following summary describes the score reporting process:

- <u>On screen</u> your score will appear immediately on the computer screen. This will happen automatically at the end of the time allowed for the examination.
  - If you <u>pass</u>, you will immediately receive a successful notification.
  - If you <u>do not pass</u>, you will receive a diagnostic report indicating your strengths and weaknesses by examination type with the score report.
- <u>On paper</u> an unofficial score report will be printed at the examination site.

#### DUPLICATE SCORE REPORTS

You may request a duplicate score report after your examination by emailing <u>scorereport@psionline.com</u>.

# EXAMINATION REFERENCE MATERIAL AND CONTENT OUTLINES

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 statespecific code, law or regulation overrides the national one. Information from sources on the test reference list override information from other sources or persons.

Candidates may use a silent, nonprinting, non-programmable calculator in the examination center.

#### OHIO LOW-PRESSURE BOILER OPERATOR EXAMINATION

Licensed Low-Pressure Boiler Operators must have knowledge on a variety of subjects relating to the operation compliance standards, boiler devices, feed water supply arrangement, heating sources, steam distribution, draft, boiler water treatment, boiler operation, boiler operator safety, Ohio laws and Rules, as these pertain to the operation of Low-Pressure Boilers.

| # of<br>Questions | % Required to<br>Pass | Time Allowed |
|-------------------|-----------------------|--------------|
| 30                | 70%                   | 3 Hours      |

#### **CONTENT OUTLINE**

| Subject Area                      | # of<br>Items |
|-----------------------------------|---------------|
| Principles & Standards, including |               |
| Combustion and Draft              | 5             |
| Boiler Devices                    | 5             |
| Feedwater Arrangement             | 4             |
| Valves, Piping & Accessories      | 3             |
| Heating Sources                   | 5             |
| Makeup Water                      | 3             |
| Operating procedures              | 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.

Candidates may use a silent, nonprinting, non-programmable calculator in the examination center.

This examination is CLOSED BOOK.

# The following reference material Is <u>NOT</u> allowed in the examination center:

*Low Pressure Boilers*, Frederick M. Steingress, Daryl R. Walker, 2019, American Technical Publishers, Inc., (800) 323-3471, <u>www.atplearning.com</u>.

#### **OHIO HIGH-PRESSURE BOILER OPERATOR EXAMINATION**

Licensed High-Pressure Boiler Operators must have knowledge on a variety of subjects relating to power plant systems including; steam boilers, environmental controls, water treatments, economic devices, and safe operation to prevent injury or damage. This includes high pressure and low-pressure boilers.

| # of<br>Questions | % Required to<br>Pass | Time Allowed |  |
|-------------------|-----------------------|--------------|--|
| 40                | 70%                   | 3 Hours      |  |

#### CONTENT OUTLINE

| Subject Area                       | # of<br>Items |
|------------------------------------|---------------|
| Boilers-steam cycle                | 1             |
| Boiler Design                      | 9             |
| Boilers-construction               | 2             |
| Combustion-fuels                   | 1             |
| Combustion-equipment               | 4             |
| Boiler Indicators & Devices        | 5             |
| Boiler Operation;                  | 7             |
| Pumps                              | 2             |
| Boiler Auxiliary Support Equipment | 7             |
| Environmental Control              | 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.

Candidates may use a silent, nonprinting, non-programmable calculator in the examination center.

This examination is CLOSED BOOK.

The following reference material <u>Is NOT</u> allowed in the examination center:

Steam Plant Operation, 10th edition, 2017, Lammers, Woodruff, Lammers, McGraw-Hill, (877) 833-5524, Fax (614) 759-3823, www.mhprofessional.com

High Pressure Boilers, 5th Edition, 2012, Frederick M. Steingress & Harold J. Frost, American Technical Publishers, Inc., (800) 323-3471, www.atplearning.com

#### **OHIO STATIONARY STEAM ENGINEER EXAMINATION**

Licensed Stationary Steam Engineers must have knowledge on a variety of subjects relating to power plant systems including; steam boilers, steam turbines, steam engineering, environmental controls, water treatments, economic devices and safe operation to prevent injury or damage. This includes high pressure and low-pressure boilers.

| # of<br>Questions | % Required to<br>Pass | Time Allowed |
|-------------------|-----------------------|--------------|
| 50                | 70%                   | 3 Hours      |

#### CONTENT OUTLINE

| Subject Area                       | # of<br>Items |
|------------------------------------|---------------|
| Boilers-steam cycle                | 4             |
| Boiler Design                      | 7             |
| Boilers-construction               | 3             |
| Combustion-fuels                   | 2             |
| Combustion-equipment               | 4             |
| Boiler Indicators & Devices        | 4             |
| Boiler Operation                   | 4             |
| Pumps                              | 3             |
| Steam Turbine Design               | 4             |
| Steam Turbine Associated Equipment | 2             |
| Boiler Auxiliary Support Equipment | 4             |
| Environmental Control              | 2             |
| Math Formulas                      | 7             |

#### **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.

Candidates may use a silent, nonprinting, non-programmable calculator in the examination center.

This examination is CLOSED BOOK.

The following reference material <u>Is NOT</u> allowed in the examination center:

Steam Plant Operation, 10th edition, 2017, Lammers, Woodruff, Lammers, McGraw-Hill, (877) 833-5524, Fax (614) 759-3823, www.mhprofessional.com