



PSI licensure:certification
 3210 E Tropicana
 Las Vegas, NV 89121
 www.psiexams.com



STATE OF UTAH
DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSING
ELECTRICIAN EXAMINATIONS
CANDIDATE INFORMATION BULLETIN

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Please refer to our website to check for the most updated information at www.psiexams.com

EXAMINATIONS BY PSI

This Candidate Information Bulletin provides you with information about the examination process for Electrician Licensure in the State of Utah.

The Division has contracted with PSI licensure:certification (PSI) to conduct its examination program. PSI provides examinations through a network of computer examination centers in Utah 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.

Following are licensing examinations offered by PSI licensure:certification.

- Master Electrician
- Journeyman Electrician
- Residential Master Electrician
- Residential Journeyman Electrician

All have code, theory and practical examinations. All three examinations must be passed in order to become licensed.

GUIDELINES FOR LICENSE APPLICATION/QUALIFICATION

HOW TO OBTAIN A LICENSE

1. Submit a license application and license fee to DOPL:

Division of Occupational and Professional Licensing
P.O. Box 146741
Salt Lake City, Utah 84114-6741
(801) 530-6628

Applications for licensure are available on the Internet at www.dopl.utah.gov.

2. Once the Division has approved you for testing, your testing eligibility will automatically be submitted to PSI, and you will receive a confirmation postcard from PSI with instructions for registering and scheduling the examination.

All questions and requests for information about examinations should be directed to PSI.

PSI licensure:certification
3210 E Tropicana
Las Vegas, NV 89121
(800) 733-9267 • Fax (702) 932-2666
www.psiexams.com

EXAMINATION REGISTRATION AND SCHEDULING PROCEDURES

Once you have been approved by the Division you will be sent a confirmation postcard from PSI. Upon receipt of your confirmation postcard, you will be responsible for contacting PSI to schedule an appointment to take the examination and make examination payment arrangements. PSI will make every effort to schedule the examination site and time that is most convenient for you.

- You must wait 25 days before retaking the examination you did not pass.
- You are allowed 3 attempts to pass each examination. After 3 failed attempts, you must complete and submit a new application and license fee to the Division.
- You must take the examinations within 6 months of the date on the approval letter.

The following fee table lists the applicable fee for each examination. The fee is for each examination, whether you are taking the examination for the first time or repeating.

EXAMINATION FEE	\$ 72
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NOTE: REGISTRATION FEES ARE NOT REFUNDABLE OR TRANSFERABLE. FEES ARE VALID FOR 6 MONTHS.

INTERNET REGISTRATION

For the fastest and most convenient test scheduling process, PSI recommends that candidates register for their examinations using the Internet. To register over the Internet, candidates will need to have a valid MasterCard or Visa. Candidates register online by accessing PSI's registration website at www.psiexams.com. Internet registration is available 24 hours a day. To register by Internet, complete the steps below:

1. Complete the registration form online and send it to PSI via the Internet.
2. Upon completion of the online registration form, you will be given the available examination dates and locations for scheduling your examination. Select your desired testing date.

FAX REGISTRATION

For fax registration, you will need a valid VISA or MasterCard.

Complete the Examination Registration Form, including your credit card number and expiration date.

1. Fax the completed form to PSI (702) 932-2666. Fax registrations are accepted 24 hours a day.
2. Please allow 4 business days to process your registration. After 4 business days, you may call PSI to schedule the examination at (800) 733-9267.



STANDARD MAIL REGISTRATION

1. Complete the Examination Registration Form found in this Candidate Information Bulletin. **BE SURE TO READ ALL DIRECTIONS CAREFULLY BEFORE COMPLETING THE EXAMINATION REGISTRATION FORM. IMPROPERLY COMPLETED FORMS WILL BE RETURNED TO YOU UNPROCESSED.**

Return the completed original form to PSI with the appropriate examination fee. Payment of fees can be made by VISA, MasterCard, money order, or cashier's check. Money orders or cashier's checks must be made payable to PSI. Print your social security number on your check or money order to ensure that your fees are properly assigned. **CASH, COMPANY CHECKS, AND PERSONAL CHECKS ARE NOT ACCEPTED.**

2. Please allow 2 weeks to process your Registration before scheduling for your examination.

TELEPHONE REGISTRATION

For telephone registration, you will need a valid VISA or MasterCard.

Complete the Examination Registration Form, including your credit card number and expiration date, so that you will be prepared with all of the information needed to register by telephone.

1. Call (800) 733-9267, 24 hours a day and register using the Automated Registration System. Otherwise, PSI registrars are available Monday through Friday between 3:30 am and 6:00 pm and Saturday, between 7:00 am and 1:00 pm, Mountain Time, to receive the information listed on your Examination Registration Form and schedule your appointment for the examination.

PSI will make every effort to schedule the examination site and time that is most convenient for you. If space is available in the examination site of your choice, you may schedule an examination 1 day prior to the examination date of your choice, up to 3:00pm MT. Please be prepared to offer alternate examination appointment choices.

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 (800) 733-9267. Please note that you may also use the automated system, using a touch-tone phone, 24 hours a day in order to cancel and reschedule your appointment.

Note: A voice mail message is not an acceptable form of cancellation. Please use the internet, automated telephone system, 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.

SPECIAL EXAMINATION ARRANGEMENTS

All examination centers are equipped to provide access in accordance with the Americans with Disabilities Act (ADA) of 1990, and every reasonable accommodation will be made in meeting a candidate's needs. Applicants with disabilities or those who would otherwise have difficulty taking the examination must fill out the form at the end of this Candidate Information Bulletin and fax to PSI (702) 932-2666. This form also includes out-of-state testing requests.

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 (800) 733-9267. Every effort will be made to reschedule your examination at a convenient time as soon as possible. You may also check our website at www.psiexams.com.

SOCIAL SECURITY NUMBER CONFIDENTIALITY

PSI will use your social security number only as an identification number in maintaining your records and reporting your examination scores to the state. A Federal law requires state agencies to collect and record the social security numbers of all licensees of the professions licensed by the state.

EXAMINATION SITE LOCATION

The following test centers are located in Utah.

Note: The following directions are generated from the most current mapping services available. However, new road construction and highway modifications may result in some discrepancies. If you are not familiar with the specific area of the testing site, please consult a reliable map prior to your test date.

Hurricane (St. George) (Written Only)

473 N. Old Highway 91, Suite 6
Hurricane, UT 84737

From I-15N, take the UT-9 exit 16 toward Hurricane/Zion Natl. Park. Merge onto UT-9/W State St toward Hurricane. Turn left onto N 6300 W/UT-212. 473 Old Hwy 91 in Hurricane approximately 1.5 miles past the Wal-Mart Distribution Center on the left hand side behind Quality Wood Products.



North Orem (Provo) (Written Only)

581 West 1600 North, Suite C

North Orem, UT 84057

From US-89, turn right onto W Center St/UT-114. Merge onto I-15 N via the ramp on the left toward Salt Lake. Take the 1600 North exit 273. Turn east onto West 1600 North. Go one mile east. PSI is located in the World Financial Group building on the right hand side.

North Salt Lake City (Written Only)

25 North 400 West, Suite 7

North Salt Lake City, UT 84054

(The city of North Salt Lake not Salt Lake City proper. The PSI test site is in Davis County just north of the Flying J Refinery.)

From Salt Lake City and the South (Temporary for I-15 Construction due to complete in Fall of 2010). Merge on to I-15N. Take the 600 N (309) exit. Turn right and go to 300 W (US89). Turn left on 300 W (US89). Go North about 4.5 miles and turn left onto E Center St. Turn right on to 400 W.

From the North

Merge onto I-15 S Salt Lake. Take the Center St., exit 314. Turn right onto W Center St. Turn right onto 400 W.

From I-80 East merge to I-215 North. Take the Redwood Rd/UT-68 exit 28 and turn right onto Center Street.

PSI is on the Northwest corner of 400 West and Center Street.

Salt Lake Community College (Practical Only)

Construction Trades Building

4600 S Redwood Rd

Salt Lake City, UT 84130

From I-15 take the 4500 South/UT-266 exit #304. Go west on 4500 S. Turn north on Redwood Road.

Sunset (Ogden) (Written Only)

2465 N Main Street #11C

Sunset, UT 84015

From I-15 S, take the UT-97 exit-338- toward Clinton/Roy/Sunset. Turn right onto W 5600 S/UT-97. Turn left onto S 1900 W/UT-126. Continue to follow UT-126.

Additionally, PSI has examination centers in many other regions across the United States. You may take this examination at any of these locations by calling (800) 733-9267. You will need to speak with a Customer Service Rep to schedule a code or theory test outside of Utah. The practical examination is only offered at the SLC Community College and PSI Saint George locations.

REPORTING TO THE EXAMINATION SITE

On the day of the examination, you should arrive at least 30 minutes before your appointment. This extra time is for sign-in, and identification. *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 2 forms of identification. One must be a VALID form of government issued identification (driver's license, state ID, passport, military ID), which bears your signature and has your photograph. The second ID must have your signature and preprinted legal name.

If you cannot provide the required identification, you must call (800) 733-9267 at least 3 weeks prior to your scheduled appointment to arrange a way to meet this security requirement. *Failure to provide all of the required identification at the time of the examination without notifying PSI is considered a missed appointment, and you will not be able to take the examination.*

PRACTICAL EXAMINATION

Candidates must bring the following items to the practical examination.

- Two 5-foot pieces of ½-inch EMT conduit
- One ½-inch EMT bender
- One continuity tester or multi meter
- One ½-inch conduit reamer
- One straight blade screwdriver
- One Phillips screwdriver
- One pair of long nose pliers
- One pair of side cut pliers
- One pair of wire strippers
- One hacksaw
- One tape measure

UT PLUMBING PRACTICAL 2010 EXAM DATES

February 6

April 3

June 5

August 7

October 2

December 4

UT ELECTRICIAN PRACTICAL 2010 EXAM DATES

February 27

March 27

April 24

May 29

June 26

July 31

August 28

September 25

October 30

November 20

December 18

SECURITY PROCEDURES

The following security procedures will apply during the examination:

- Cell phones, pagers, and children are not allowed in the examination site.
- 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.
- No smoking, eating, or drinking will be allowed in the examination site.



- Copying or communicating examination content is a violation of PSI security policy. Either one may result in the disqualification of examination results and may lead to legal action.
- No firearms or deadly weapons allowed at any PSI testing facility.

EXAMINATION QUESTION EXAMPLE

During the examination, you should press 1, 2, 3, or 4 to select your answer or press "MARK" to mark it for later review. You should then press "ENTER" to record your answer and move on



to the next question. A sample question display follows:

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 ITEMS

In addition to the number of questions per examination, a small number of five 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 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 Utah Division of Occupational and Professional Licensing, will be consistently 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 using the comments key on the keyboard. These comments will be analyzed by PSI examination development staff. PSI does not respond to individuals regarding these comments, all substantive comments are reviewed. **This is the only review of examination materials available to candidates.**

SCORE REPORTING

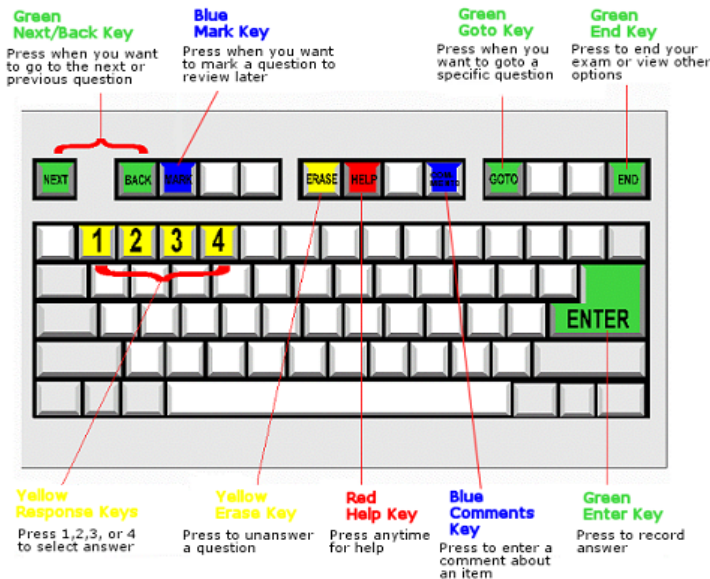
THEORY AND CODE EXAMINATIONS

In order to pass the examinations, you must receive a score of at least 75%.

You will receive your score report immediately following the completion of the examination.

TAKING THE CODE AND THEORY EXAMINATION BY COMPUTER

Taking the PSI examination by computer is simple. You do not need any computer experience or typing skills. You will use fewer keys than you use on a touch-tone telephone. All response keys are colored and have prominent characters. An illustration of the special keyboard is shown here. You may also use a mouse.



IDENTIFICATION SCREEN

You will be directed to a semiprivate testing station to take the examination. When you are seated at the testing station, you will be prompted to confirm your name, identification number, and the examination for which you are registered.

TUTORIAL

Before you start your examination, an introductory tutorial to the computer and keyboard 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 using the keys, answering questions, and reviewing your answers.

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.

PRACTICAL EXAMINATION

You will receive either a “pass” or “fail” score on the practical examination. If you fail any portion of the practical exam, the exam will end and you will be asked to immediately leave the testing site. Your practical examination score will be mailed within 15 days after the examination date. All scores are mailed simultaneously. Examination scores will **not** be given over the phone.

DUPLICATE SCORE REPORTS

You can write to PSI to request a duplicate of your score report.

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.

Many of the reference materials listed are available for purchase at www.psionlinestore.com or by calling the PSI Online Store, toll-free, at (866) 589-3088.

Titles currently in stock are listed on the order form near the end of this candidate information bulletin.

SAMPLE QUESTIONS

Each electrical examination consists of three examinations: code, theory and practical.

The practical examination is “hands-on” and you will be tested on the practical knowledge of using conduits, switching, motors and controls, transformers, troubleshooting and general knowledge.

The code and theory examinations are administered by computer. The following samples may be useful to review for the type of questions that may be included in the theory examination.

1. Conductors within electrical nonmetallic tubing may carry a **MAXIMUM** of
 1. 300 volts.
 2. 450 volts.
 3. 500 volts.
 4. 600 volts.
2. Given: Six, 230-volt, size 8 AWG, copper, type TW conductors are in a single 12 CE raceway operating at 80°F. Each conductor may have a **MAXIMUM** load of
 1. 28 amps.
 2. 32 amps.
 3. 40 amps.
 4. 50 amps.
3. Disregarding all exceptions, if the copper service entrance conductors are size 3/0, the minimum size of the copper grounding electrode conductor must be **AT LEAST** size
 1. 3/0 AWG.
 2. 2/0 AWG.
 3. 2 AWG.
 4. 4 AWG.
4. Given: A 20 horsepower, wound-rotor, no code letter motor is to be installed with 480-volt, 3-phase alternating current. Disregarding all exceptions, the **LARGEST** nontime delay fuse to provide short-circuit and ground-fault protection for the motor is
 1. 30 amps.
 2. 40 amps.
 3. 50 amps.
 4. 60 amps.
5. On typical wiring diagrams for magnetic motor control starters, overload heaters are shown in series with the
 1. control circuit supplying the coil of the motor starter.
 2. line contacts supplying power to the motor.
 3. pilot light that indicates when the motor is stopped.
 4. pilot light that indicates when the motor is on.
6. Given: A 120-volt lighting fixture has twelve 100-watt light bulbs which are all fed through a common fixture wire. The **MINIMUM** size fixture wire for the one common wire that feeds the entire fixture is size
 1. 16 AWG.
 2. 14 AWG.
 3. 12 AWG.
 4. 10 AWG.
7. Wiring which is to provide external power to aircraft within aircraft hangars shall be installed **AT LEAST** how many inches above floor level?
 1. 6 inches.
 2. 12 inches.
 3. 18 inches.
 4. 24 inches.
8. Given: A new 5-unit apartment building has a 120/240-volt, single phase service. Each apartment has a net computed load of 40 kVA. There is **NO** house load in the building. Use the **OPTIONAL** method. The service of this complete 5-unit apartment building has a total net computed load of
 1. 40 kVA.
 2. 90 kVA.



3. 120 kVA.
4. 200 kVA.

CONTENT OUTLINE

Answers to sample questions:

Question	Answer	Reference
1	4	Section 362.12(6)
2	2	Table 310-16; 310.15(B)(2)(a)
3	4	Table. 250-66
4	2	Table 430.250 & 430.52
5	2	<i>American Electrician' Handbook</i> , Figure 7-159
6	2	Section 402-5
7	3	Section 513-10(C)(1)
8	2	Table 220.84

Subject Area	# of Items
General Knowledge	10
Raceways and Enclosures	7
Services, Feeders, and Branch Circuits	10
Overcurrent Protection	5
Conductors and Cables	6
Grounding and Bonding	8
Lighting and General Use Equipment	5
Special Occupancies and Equipment	5
Motors and Controls	6
Low Voltage and Communications Circuits	3
Fire and Intrusion Detection and Alarm Systems	5
Electrical Power	5
State Laws and Rules and Safety	5

EXAMINATION REFERENCE MATERIAL AND CONTENT OUTLINE

The electrical examinations are all divided into three separate examinations for each license:

Code Examination consists of code questions. Some of the questions will require application of electrical theory and calculations. A passing score of at least 75% is required to pass this portion. This is an OPEN book examination.

Theory Examination is based on the application of basic electrical theory, calculations and general knowledge relevant to the industry. A passing score of at least 75% is required to pass this portion. This is an OPEN book examination.

Practical Examination is a "hands-on" practical examination. You will be tested on the practical knowledge of using conduits, switching, motors and controls, transformers, troubleshooting and general knowledge. The practical portion is a pass/fail examination. No reference materials are allowed at the test center during this examination.

The following content outlines describe the content areas covered on each examination and the percentage of questions in each area.

The Code, Theory and Practical examinations all must be passed in order to become licensed.

MASTER ELECTRICIAN CODE EXAMINATION

SCOPE OF WORK

A person who possesses the knowledge and skill to design, plan, layout, install, alter, repair, add to, or change electrical conductors, fixtures, appliances, apparatus, raceways, conduit, or any part thereof which generates, transforms, or utilizes electrical energy in any form for light, heat, power, or communications.

# of Questions	Minimum Passing Score	Time Allowed
80	75%	180 Minutes

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.

The following reference material is allowed in the examination center:

- *NFPA 70 - National Electrical Code*, 2008 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101, www.nfpa.org.
- Utah Amendments to the National Electrical Code, 2005.
- *Ugly's Electrical References*, 2008 Edition, Burleson Distributing Corp., 3501 Oak Forest Drive, Houston, TX 77018, www.uglyselectrical.com.

The following reference material is NOT allowed in the examination center:

- *Lineman's and Cableman's Handbook*, 9th Edition, 2002, McGraw-Hill, PO Box 182605, Columbus, OH 43218, (800) 338-3937, www.mcgraw-hill.com, ISBN: 0-07-036011-1
- *American Electricians' Handbook*, 14th Edition, 2002, McGraw-Hill, (800) 262-4729, www.books.mcgraw-hill.com, ISBN: 0-07-137735

Reference material may be highlighted, underlined, and/or indexed. They must be otherwise unmarked (not written in) and may not contain additional papers (loose or attached). **THESE REFERENCES WILL NOT BE AVAILABLE IN THE EXAMINATION CENTER.** References may be tabbed/indexed with permanent tabs only. Temporary tabs, such as Post-It notes, are not allowed and must be removed from the reference before the exam will begin. If you are downloading from the Internet, you may bring this reference into the testing center with you as long as it is bound. You can have it spiral bound or you may hole-punch it and put it in a binder.



MASTER ELECTRICIAN THEORY EXAMINATION

# of Questions	Minimum Passing Score	Time Allowed
50	75%	100 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Voltage	10
Current	10
Resistance	10
Power	10
Voltage Drop	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.

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

The following reference material is allowed in the examination center:

- *Ugly's Electrical References*, 2008 Edition, Burleson Distributing Corp., 3501 Oak Forest Drive, Houston, TX 77018, www.uglyelectrical.com.

The following reference material is NOT allowed in the examination center:

- *American Electricians' Handbook*, 14th Edition, 2002, McGraw-Hill, (800) 262-4729, www.books.mcgraw-hill.com, ISBN: 0-07-137735
- *NFPA 70 - National Electrical Code*, 2008 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101, www.nfpa.org.
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MASTER ELECTRICIAN PRACTICAL EXAMINATION

# of Items	Minimum Passing Score	Time Allowed
7	Pass	120 Minutes

CONTENT OUTLINE

Subject Area	
Wiring Projects - Motor Control Project - Transformer Project - Doorbell Project - Light Switch Project	Pass
Material Identification - Material Identification Project	Pass
Conduit Bending - Complex Bending Project - Simple Bending Project	Pass

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.

The following reference material is NOT allowed in the examination center:

- *Conduit Bending Workbook*, 1997, Tom Henry Books, 7449 Citrus Avenue, Winter Park, FL 32792, www.code-electrical.com.
- *Electric Motor Control*, Seventh Edition, 2003, Thomson Delmar Learning, P.O. Box 6904, Florence, KY 41022, www.delmarlearning.com.
- *NFPA 70, National Electrical Code*, 2008 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101, www.nfpa.org.

JOURNEYMAN ELECTRICIAN CODE EXAMINATION

SCOPE OF WORK

A person who possesses the knowledge and skill to install, alter, repair, add to, or change electrical conductors, fixtures, appliances, apparatus, raceways, conduit, or any part thereof which generates, transforms, or utilizes electrical energy in any form for light, heat, power, or communications.

# of Questions	Minimum Passing Score	Time Allowed
80	75%	180 Minutes

CONTENT OUTLINE

Subject Area	# of Items
General Knowledge	10
Raceways and Enclosures	7
Services, Feeders, and Branch Circuits	8



Overcurrent Protection	5
Conductors and Cables	6
Grounding and Bonding	8
Lighting and General Use Equipment	7
Special Occupancies and Equipment	8
Motors and Controls	6
Low Voltage and Communications Circuits	3
Fire and Intrusion Detection and Alarm Systems	3
Electrical Power	4
State Laws and Rules and Safety	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.

The following reference material is allowed in the examination center:

- *NFPA 70 - National Electrical Code*, 2008 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101, www.nfpa.org.
- Utah Amendments to the National Electrical Code, 2005.
- *Ugly's Electrical References*, 2008 Edition, Burleson Distributing Corp., 3501 Oak Forest Drive, Houston, TX 77018, www.uglyselectrical.com.

The following reference material is NOT allowed in the examination center:

- *Lineman's and Cableman's Handbook*, 9th Edition, 2002, McGraw-Hill, PO Box 182605, Columbus, OH 43218, (800) 338-3937, www.mcgraw-hill.com, ISBN: 0-07-036011-1
- *American Electricians' Handbook*, 14th Edition, 2002, McGraw-Hill, (800) 262-4729, www.books.mcgraw-hill.com, ISBN: 0-07-137735

Reference material may be highlighted, underlined, and/or indexed. They must be otherwise unmarked (not written in) and may **not** contain additional papers (loose or attached). **THESE REFERENCES WILL NOT BE AVAILABLE IN THE EXAMINATION CENTER.** References may be tabbed/indexed with permanent tabs only. Temporary tabs, such as Post-It notes, are not allowed and must be removed from the reference before the exam will begin. If you are downloading from the Internet, you may bring this reference into the testing center with you as long as it is bound. You can have it spiral bound or you may hole-punch it and put it in a binder.

JOURNEYMAN ELECTRICIAN THEORY EXAMINATION

# of Questions	Minimum Passing Score	Time Allowed
50	75%	100 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Voltage	10
Current	10
Resistance	10
Power	10
Voltage Drop	10

REFERENCE LIST

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

The following reference material is allowed in the examination center:

- *Ugly's Electrical References*, 2008 Edition, Burleson Distributing Corp., 3501 Oak Forest Drive, Houston, TX 77018, www.uglyselectrical.com.

The following reference material is NOT allowed in the examination center:

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- Utah Amendments to the National Electrical Code, 2005.
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JOURNEYMAN ELECTRICIAN PRACTICAL EXAMINATION

# of Items	Minimum Passing Score	Time Allowed
5	Pass	90 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Wiring Projects - Motor Control Project	Pass



- Transformer Project - Light Switch Project	
Material Identification - Material Identification Project	Pass
Conduit Bending - Simple Bending	Pass

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RESIDENTIAL MASTER ELECTRICIAN CODE EXAMINATION

SCOPE OF WORK

A person who possesses the training, experience, and knowledge to properly plan, layout, and supervise the wiring, installation, and repair of electrical apparatus and equipment for light, heat, power, and other purposes on residential projects where the voltage does not exceed 250 volts line to line and 125 volts to ground.

# of Questions	Minimum Passing Score	Time Allowed
80	75%	180 Minutes

CONTENT OUTLINE

Subject Area	# of Items
General Knowledge	15
Raceways and Enclosures	5
Services, Feeders, and Branch Circuits	13
Overcurrent Protection	5
Conductors and Cables	10
Grounding and Bonding	8
Lighting and General Use Equipment	7
Special Occupancies and Equipment	6
Low Voltage and Communications Circuits	6
State Laws and Rules and Safety	5

REFERENCE LIST

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- *Utah Amendments to the National Electrical Code*, 2005.
- *Ugly's Electrical References*, 2008 Edition, Burleson Distributing Corp., 3501 Oak Forest Drive, Houston, TX 77018, www.uglyselectrical.com.

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- *Lineman's and Cableman's Handbook*, 9th Edition, 2002, McGraw-Hill, PO Box 182605, Columbus, OH 43218, (800) 338-3937, www.mcgraw-hill.com, ISBN: 0-07-036011-1
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RESIDENTIAL MASTER ELECTRICIAN THEORY EXAMINATION

# of Questions	Minimum Passing Score	Time Allowed
50	75%	100 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Voltage	10
Current	10
Resistance	10
Power	10
Voltage Drop	10

REFERENCE LIST

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RESIDENTIAL MASTER ELECTRICIAN PRACTICAL EXAMINATION

# of Items	Minimum Passing Score	Time Allowed
6	Pass	60 Minutes

CONTENT OUTLINE

Subject Area	
Wiring Projects - 120 Volt Motor Wiring Project - Doorbell Project - Light Switch Project	Pass
Material Identification - Material Identification	Pass
Conduit Bending - Complex Bending - Simple Bending	Pass

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RESIDENTIAL JOURNEYMAN ELECTRICIAN CODE EXAMINATION

SCOPE OF WORK

A person who possesses the training, experience, and knowledge to wire, install, and repair electrical apparatus and equipment for light, heat, power, and other purposes, on buildings using primarily nonmetallic sheathed cable where the voltage does not exceed 250 volts line to line and 125 volts to ground.

# of Questions	Minimum Passing Score	Time Allowed
80	75%	180 Minutes

CONTENT OUTLINE

Subject Area	# of Items
General Knowledge	20
Raceways and Enclosures	5
Services, Feeders, and Branch Circuits	15
Overcurrent Protection	5
Conductors and Cables	7
Grounding and Bonding	5
Lighting and General Use Equipment	6
Special Occupancies and Equipment	6
Low Voltage and Communications Circuits	8
State Laws and Rules and Safety	3

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RESIDENTIAL JOURNEYMAN ELECTRICIAN THEORY EXAMINATION

# of Questions	Minimum Passing Score	Time Allowed
50	75%	100 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Voltage	10
Current	10
Resistance	10
Power	10
Voltage Drop	10

REFERENCE LIST

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RESIDENTIAL JOURNEYMAN ELECTRICIAN PRACTICAL EXAMINATION

# of Items	Minimum Passing Score	Time Allowed
4	Pass	60 Minutes

CONTENT OUTLINE

Subject Area	
Wiring Projects - Doorbell Project - Light Switch Project	Pass
Material Identification - Material Identification	Pass
Conduit Bending - Simple Bending	Pass

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Candidates who wish to request special arrangements because of a disability should fax this form and supporting documentation to PSI at (702) 932-2666.

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DO NOT SCHEDULE YOUR EXAMINATION UNTIL THIS DOCUMENTATION HAS BEEN RECEIVED AND PROCESSED BY PSI SPECIAL ACCOMMODATIONS.



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