



## EXAMINATION INFORMATION

The NASCLA Accredited Electrical Examination Program was designed to assist contractors who wish to be licensed in multiple jurisdictions by offering a streamlined test taking option for the trade portion of the contractor examination.

Candidates who take and pass the NASCLA Accredited Examination can access NASCLA's National Examination Database (NED) located on <https://ned.nascla.org> to electronically send their transcripts to jurisdictions that accept the examination in lieu of their state specific trade portion, thereby reducing redundant licensing requirements. Candidates are expected to follow individual state agency applications to become licensed, in addition to taking a business and law examination, etc. If you are unsure if these examinations will meet your specific license requirements in a participating state agency, please contact the state agency directly to confirm. A complete list of participating state agencies can be found on NASCLA's website by visiting: [www.nascla.org](http://www.nascla.org)

For questions regarding the examinations, please contact NASCLA via email to [info@nascla.org](mailto:info@nascla.org) or by phone at (623) 587-9354.

## EXAMINATION REGISTRATION AND SCHEDULING PROCEDURES

Once approved by the state agency, it is your responsibility to contact its preferred testing provider to pay and schedule for the examination.

## 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

You must provide 1 form of identification. This must be a VALID form of government-issued identification (Driver's License, State ID, Passport) which bears your signature and has your photograph.

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 at that time.***

### 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, 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. 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 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.

# of Questions	Minimum Passing Score	Time Allowed
100	75	270 Minutes

### CONTENT OUTLINE

Subject Area	# of Items
Project Design & Management	8
Safety	9
Electrical Theory & Principles	11
General Code Requirements	17
Wiring & Protection	17
Wiring Methods & Materials	16
Equipment for General Use	13
Special Occupancies, Special Equipment & Special Conditions	8
Communication Systems	1

## **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. Please see the end of this bulletin for example instructions on what will be visible on the testing screen.

### EXAMINATION REVIEW

While taking the examination, examinees will have the opportunity to provide comments on any questions, by clicking the Comments link on the test question screen. These comments will be analyzed by NASCLA examination development staff. Although NASCLA does not respond to individuals regarding these comments, all substantive comments are reviewed. **This is the only review of examination materials available to candidates.**

## **EXAMINATIONS**

### NASCLA ACCREDITED TRADE EXAMINATION FOR ELECTRICAL CONTRACTORS

**Definition of an Electrical Contractor (Master Electrician/Unlimited Electrician):** One who conducts business in the installation, maintenance and repair of electrical work conforming to applicable standards and codes.

If you are unsure if this examination will meet your specific license requirements in a participating state agency, please contact the state agency directly to confirm. A complete list of participating state agencies can be found on NASCLA's website by visiting: [www.nascla.org](http://www.nascla.org)

For questions regarding the examination, please contact NASCLA via email to [info@nascla.org](mailto:info@nascla.org) or by phone at (623) 587-9354.

### EXPERIMENTAL ITEMS

In addition to the number of examination items specified, 10 non-scored "experimental" questions will be administered to candidates during the examinations. **These questions will not be counted towards the candidate's overall score on the examination.** The administration of such non-scored experimental questions is an essential step in developing future licensing examinations.

### 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 editions of the Code book that are listed. Candidates may use a silent, nonprinting, non-programmable calculator in the examination center.

This examination is OPEN BOOK.

*The following reference materials are allowed in the examination center.*

**National Electrical Code or National Electrical Code Handbook, 2014 or 2017 Editions**, 2014: ISBN-13: 978-1455906727 or ISBN-10: 1455906727, 2017: ISBN-13 978-1455912773 or ISBN-10: 1455912778, National Fire Protection Association, Telephone: (617) 770-3000, [www.nfpa.org](http://www.nfpa.org)

**Code of Federal Regulations - 29 CFR 1926 - OSHA Construction Industry Regulations, 2016 Edition**, ISBN-10: 1354237919 or ISBN-13: 978-135423791, Office of the Federal Register, Superintendent of Documents, PO Box 371954, Pittsburgh, PA 15250-7954, Telephone: (888) 293-6498, [www.access.gpo.gov/nara/cfr/cfr-tablesearch](http://www.access.gpo.gov/nara/cfr/cfr-tablesearch)

**A Guide to the Project Management Body of Knowledge, (PMBOK Guide), 2000 Edition**, Project Management Institute

**American Electricians Handbook, 2013, Edition 16**, ISBN-13: 978-0071798808 or ISBN-10: 0071798803, Authors: Terrell Croft, Frederic Hartwell, and Wilford I. Summers

**ANSI/ASHRAE/IES Standard 90.1-2016**, U.S. Department of Energy, [www.energycodes.gov/resource-center/training-courses/ansiashraeies-standard-901-2016](http://www.energycodes.gov/resource-center/training-courses/ansiashraeies-standard-901-2016)

**Delmar's Standard Textbook of Electricity, 2016, Edition 6**, ISBN-13: 978-1285852706, ISBN-10: 1285852702, Author: Stephen L. Herman

**International Residential Code for One- and Two-Family Dwellings, 2015 Edition**, ISBN-13: 978-1609834708 or ISBN-10: 1609834704, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)

**NASCLA Contractors Guide to Business, Law and Project Management, Basic 12<sup>th</sup> Edition**, National Association of State Contractors Licensing Agencies (NASCLA), Telephone: (623) 587-9354, [www.nascla.org](http://www.nascla.org)

**NFPA 101- Standard for Life Safety Code, 2015 Edition**, ISBN-13: 978-1455909025 or ISBN-10: 1455909025, National Fire Protection Association, Telephone: (617) 770-3000, [www.nfpa.org](http://www.nfpa.org)

**NFPA 70E - Standard for Electrical Safety in the Workplace, 2015 Edition**, ISBN-10: 1455908932 or ISBN-13: 978-1455908936, National Fire Protection Association, Telephone: (617) 770-3000, [www.nfpa.org](http://www.nfpa.org)

**OSHA 3071 - Job Hazard Analysis Guide, 2002 Edition**, [www.osha.gov/pls/publications/publication.athruz?pType=Industry&pld=116](http://www.osha.gov/pls/publications/publication.athruz?pType=Industry&pld=116)

**Soares Book on Grounding and Bonding, 2014 Edition**, ISBN-10: 1890659657 or ISBN-13: 978-1890659653

**Ugly's Electrical References, 2017 Edition**, ISBN-10: 128411936X or ISBN-13: 978-1284119367, Jones & Bartlett Learning, Telephone: (800) 832-0034, [www.uglys.net](http://www.uglys.net)

**\*\*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.**

## AFTER PASSING THE EXAMINATION

Your results will be sent to the NASCLA National Examination Database (NED) located at <https://ned.nascla.org> which will allow you to electronically send your transcript to other state agencies accepting the examination; please allow 72 hours for your results to be entered. In order to access this information, you must have an account within NED Database.

Transcript Registration Process on <https://ned.nascla.org>

- **Create an Account** - Candidate will create an account online.
- **Account Linked** - NASCLA will link the candidate's test results to their account within 48 hours.
- **Purchase Transcripts** - Candidate can login to electronically purchase and send transcripts to the accepting state agencies as they apply for licensure.

For a complete listing of state agencies that will accept the examination results, please visit the National Association of State Contractors Licensing Agencies' (NASCLA) website at [www.nascla.org](http://www.nascla.org).

## NASCLA ACCREDITED EXAMINATION FOR JOURNEYMAN ELECTRICIANS

**Definition of a Journeyman Electrician:** An individual who has demonstrated competency in the knowledge and skills needed to properly perform the installation, maintenance and repair of electrical work conforming to applicable standards and codes.

If you are unsure if this examination will meet your specific license requirements in a participating state agency, please contact the state agency directly to confirm. A complete list of participating state agencies can be found on NASCLA's website by visiting: [www.nascla.org](http://www.nascla.org)

For questions regarding the examination, please contact NASCLA via email to [info@nascla.org](mailto:info@nascla.org) or by phone at (623) 587-9354.

# of Questions	Minimum Passing Score	Time Allowed
100	70	270 Minutes

### CONTENT OUTLINE

Subject Area	# of Items
Interpreting Plans and Specifications	6
Basic Electrical Safety	8
Electrical Theory & Principles	10
Testing and Troubleshooting	7
General Code Requirements	15
Wiring & Protection	18
Wiring Methods & Materials	16
Equipment for General Use	10
Special Occupancies & Special Equipment	8
Special Conditions & Communication Systems	2

### EXPERIMENTAL ITEMS

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### 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 editions of the Code book that are listed.

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

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**Delmar's Standard Textbook of Electricity, 2016, Edition 6**, ISBN-13: 978-1285852706, ISBN-10: 1285852702, Author: Stephen L. Herman

**Electricity One - Seven, 1999, Edition 3**, ISBN-13: 978-0139178573 or ISBN-10: 0139178570, Author: Harry Mileaf

**International Residential Code for One- and Two-Family Dwellings, 2015 Edition**, ISBN-13: 978-1609834708 or ISBN-10: 1609834704, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)

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**NFPA 72 - National Fire Alarm and Signaling Code, 2016 Edition**, ISBN-13: 9781455911646 or ISBN-10: 145591164X National Fire Protection Association, Telephone: (617) 770-3000, [www.nfpa.org](http://www.nfpa.org)

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## NASCLA ACCREDITED TRADE EXAMINATION FOR RESIDENTIAL ELECTRICAL CONTRACTORS

**Definition of a Residential Electrician/Residential Electrical Contractor:** One who demonstrates competency in performing electrical installations, service, repair and maintenance typically encountered in a permanent dwelling unit.

If you are unsure if this examination will meet your specific license requirements in a participating state agency, please contact the state agency directly to confirm. A complete list of participating state agencies can be found on NASCLA's website by visiting: [www.nascla.org](http://www.nascla.org)

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# of Questions	Minimum Passing Score	Time Allowed
100	70	270 Minutes

### CONTENT OUTLINE

Subject Area	# of Items
Theory	9
Personal/Jobsite Safety (OSHA, NFPA 70E)	8
Project Design, Estimating and Management	8
Grounding and Bonding	14
Special Systems and Special Equipment Installations	7
Tools and Test Equipment	7
Circuit Protection and Installation	16
Wiring Methods and Practices	17
Equipment for General Use	13
Energy Efficiency/Management	1

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**American Electricians Handbook, 2013, Edition 16**, ISBN-13: 978-0071798808 or ISBN-10: 0071798803, Authors: Terrell Croft, Frederic Hartwell, and Wilford I. Summers

**ANSI Z535.4 -2011, Product Safety Signs and Labels**, National Electrical Manufacturers Association (NEMA)/American National Standards Institute (ANSI) [www.techstreet.com/nema/standards/ansi-z535-4-2011-r2017?product\\_id=1810050](http://www.techstreet.com/nema/standards/ansi-z535-4-2011-r2017?product_id=1810050)

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**Ugly’s Electrical References, 2017 Edition**, ISBN-10: 128411936X or ISBN-13: 978-1284119367, Jones & Bartlett Learning, Telephone: (800) 832-0034, [www.uglys.net](http://www.uglys.net)

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