



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/page/ParticipatingStateAg.

For questions regarding the examinations, please contact NASCLA via email to 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. **TBD - Further information to be provided.**

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, or use the PSI Website.

Note: A voice mail or email message is NOT an acceptable form of cancellation. Please use the PSI Website or call PSI to speak directly 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 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.

EXAMINATION ACCOMMODATION

All examination centers are equipped to provide access in accordance with the Americans with Disabilities Act (ADA) of 1990, and every examination 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 it to PSI (702) 932-2666.

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.

EXAMINATION SITE LOCATIONS

There are nationwide examination centers. You will be provided with the locations upon scheduling for your examination. Go to www.psiexams.com for a listing of sites.

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.

TAKING THE EXAMINATION BY COMPUTER

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

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, enter your external identification number (social security number), and the examination for which you are registered.

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/page/ParticipatingStateAg**

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

# 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

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

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

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

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

NASCLA Contractors Guide to Business, Law and Project Management, Basic 12th Edition, National Association of State Contractors Licensing Agencies (NASCLA), Telephone: (623) 587-9354, 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

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

OSHA 3071 - Job Hazard Analysis Guide, 2002 Edition, www.osha.gov/pls/publications/publication.athruz?pType=Industry&PID=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

****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.

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/page/ParticipatingStateAg

For questions regarding the examination, please contact NASCLA via email to 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

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.

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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

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

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

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

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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

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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/page/ParticipatingStateAg

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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

EXPERIMENTAL ITEMS

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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

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

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

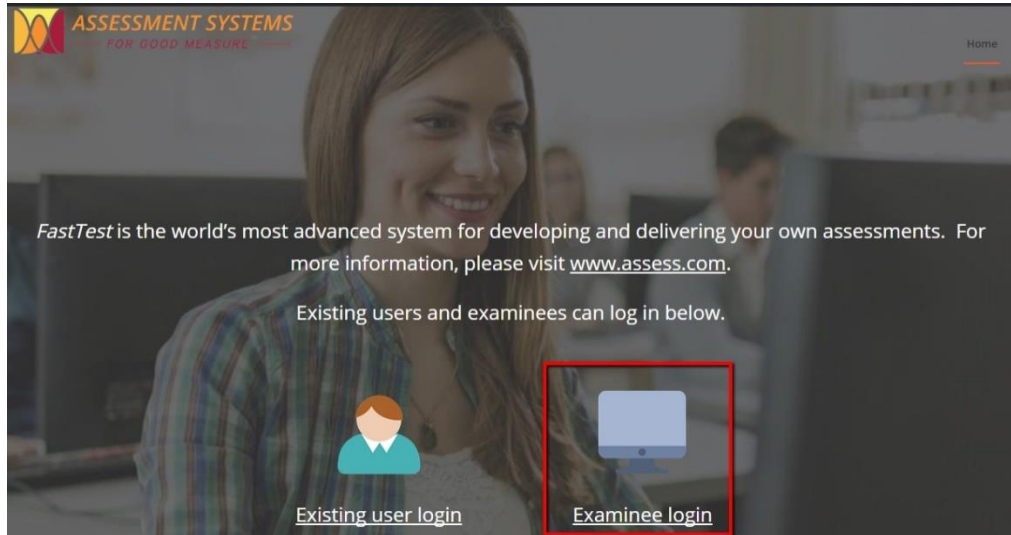
- **Create an Account** - Candidate will create an account online.
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What to Expect When Taking an Examination through the NASCLA Accredited Electrical Examination Program

A. Launching a Test

1. Go to <http://www.fasttestweb.com>
2. Click on the link at the bottom of the page that says *Examinees log in here*
3. Enter the 12-digit test code. Example ABC-123-456-DEF (*this code would have been emailed to you or received at the proctor testing site*)



Examinee Login

Test Code

Please enter your valid Test Code

Login

Exit

[System Requirements](#)

[Troubleshooting](#)

What to Expect When Taking an Examination through the NASCLA Accredited Electrical Examination Program

4. Click the Step 1 link to install the FastTest WebLock secure browser
5. Open the set-up file to begin install (located in bottom left corner of screen)
6. Allow, Confirm, and/or Run the install process according to the computer's operating system and system preferences.
7. Click the Step 2 link to launch FastTest WebLock
8. WebLock will prompt you to close all prohibited programs
9. Enter the test code into the space provided
10. Once the test has been initiated, it must be completed before the FastTest WebLock browser is able to close



Secure Testing with *FastTest WebLock*

Follow the steps below to set up the *FastTest WebLock* secure browser. If the browser has already been installed on this computer, proceed to Step 2.

Step 1: Install WebLock	Step 2: Launch WebLock
<p>Note: You must have administrator privileges to install <i>FastTest WebLock</i>. Skip Step 1 if already installed.</p> <p>Click here to install the <i>FastTest WebLock</i> secure browser*</p> <p><small>* Click Run, Install, Next, or Allow when prompted</small></p>	<p>Note: You must close all other programs before launching <i>FastTest WebLock</i>.</p> <p>Click here to launch <i>FastTest WebLock</i> and continue to the testing system</p> <p><small>* Click Run or Allow when prompted</small></p>

Troubleshooting WebLock

**The above steps may have already been completed by your proctoring test site.*

What to Expect When Taking an Examination through the NASCLA Accredited Electrical Examination Program

11. After entering the Test Code, a demographics screen will be shown. Please complete or update the required fields shown.

****The External ID is your Social Security Number which is your personal identification number for the system.**



Please fill out this form

Fields marked with * are required

First Name*

Middle Name

Last Name*

Date of Birth*

Please format as YYYY-MM-DD

Gender

External ID*

Email*

ContactAddress*

ContactCity*

ContactState*

ContactZipCode*

Drivers License/State Official ID*

Submit

What to Expect When Taking an Examination through the NASCLA Accredited Electrical Examination Program

Now that you have successfully logged in, please review the following instructional items:

1. Test questions will be presented to you in the middle of the screen. Mark your answers by selecting the button next to your answer choice.
2. **Images**
 - a. Images may be embedded throughout questions during the examination. They will show in the body of the question. **Click on the hyperlink at the top of the question to make the image bigger.**

Reference Library [Calculator](#) [Feedback](#) Section Time Left - 04:29:57

1 2 3

[Image 1](#) Click here to make the image bigger.

1. Refer to the image (Image 1), what color is the sun?

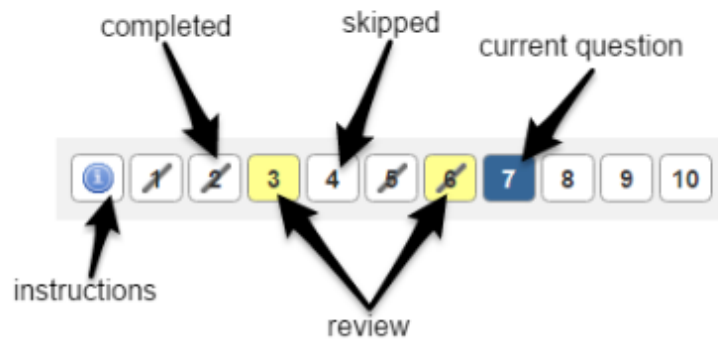
Image 1



- A. Blue
- B. Green
- C. Yellow
- D. Red

What to Expect When Taking an Examination through the NASCLA Accredited Electrical Examination Program

3. A test map is provided at the top of the screen to help navigate and track your progress throughout the test.



- | | | | |
|---------------------------------------|------------------------------|---|---|
| << BACK | NEXT >> | REVIEW | I AM DONE |
| Click to go back to previous question | Click to go to next question | Click to highlight a question you want to check later | Click when you have completed all answers |

What to Expect When Taking an Examination through the NASCLA Accredited Electrical Examination Program

4. PDF Documents

- a. Questions that refer to the “Reference Library” are directing the candidate to open the Reference Library link to view additional documents pertaining to that question. *Please note there are multiple PDFs in the Reference Library; it is important to make sure you select the correct document.
- b. These PDF documents will also be embedded into the question as an image for another viewing option. Click on the hyperlink at the top of the question to make the image bigger.

Reference Library Calculator Feedback Section Time Left - 04:18:42

2. Refer to PDF 1 in the above **Reference Library**, what color is the front door?

- A. Blue
- B. Green
- C. Yellow
- D. Red

PDF 1.pdf Reference Library

PDF 1

Each time you open/close the Reference Library, the same PDF will show. You must make sure that you click "Open A Different Document" at the bottom right corner to open the correct new PDF option noted in your question.

OPEN A DIFFERENT DOCUMENT CLOSE

What to Expect When Taking an Examination through the NASCLA Accredited Electrical Examination Program

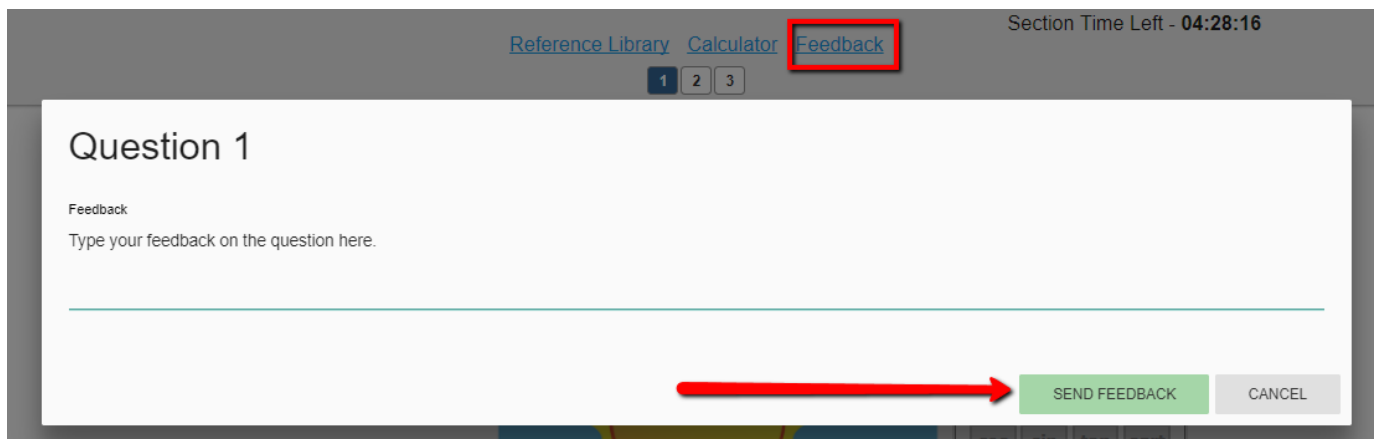
5. The examination contains additional tools for candidates to use. These features include a calculator and optional Feedback button.
 - a. The capabilities of these tools are:
 - i. The **calculator** can be moved around on the screen throughout the test section.

The screenshot displays the examination interface. At the top right, it shows "Section Time Left - 04:26:39". In the center, there are three buttons: "Reference Library", "Calculator", and "Feedback". The "Calculator" button is highlighted with a red box, and a red arrow points from it to a floating calculator window. Below the buttons are three question indicators: "1" (highlighted in yellow), "2", and "3". A red arrow points from the "1" indicator to a question: "3. What is the sum of 2 + 2?". Below the question are four radio button options: "A. 2", "B. 6", "C. 4", and "D. 5". A red box at the bottom left contains the text: "Items that are marked for Review (at the bottom of the screen) will show highlighted here." The floating calculator window has a title bar "Calculator" and a close button. It contains a display area and a grid of buttons including "Mrc", "M-", "M+", "C", "7", "8", "9", "÷", "4", "5", "6", "×", "1", "2", "3", "-", "0", ".", "=", "+", "cos", "sin", "tan", "sqrt", "log", "ln", "10^x", and "x²".

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- ii. The **Feedback** function is most often used for item review. Comments on items could include things such as noting typographical errors, unclear directions, alternative arguments, disputes, etc. Feedback will be submitted to NASCLA. Questions that you have left feedback for will not be marked in the test map, such as items you have marked for review. You can edit or delete your feedback by going back into the question and re-clicking the Feedback button.

Examinees can also mark items for review by clicking Send Feedback between the Back and Next buttons at the bottom of the page.

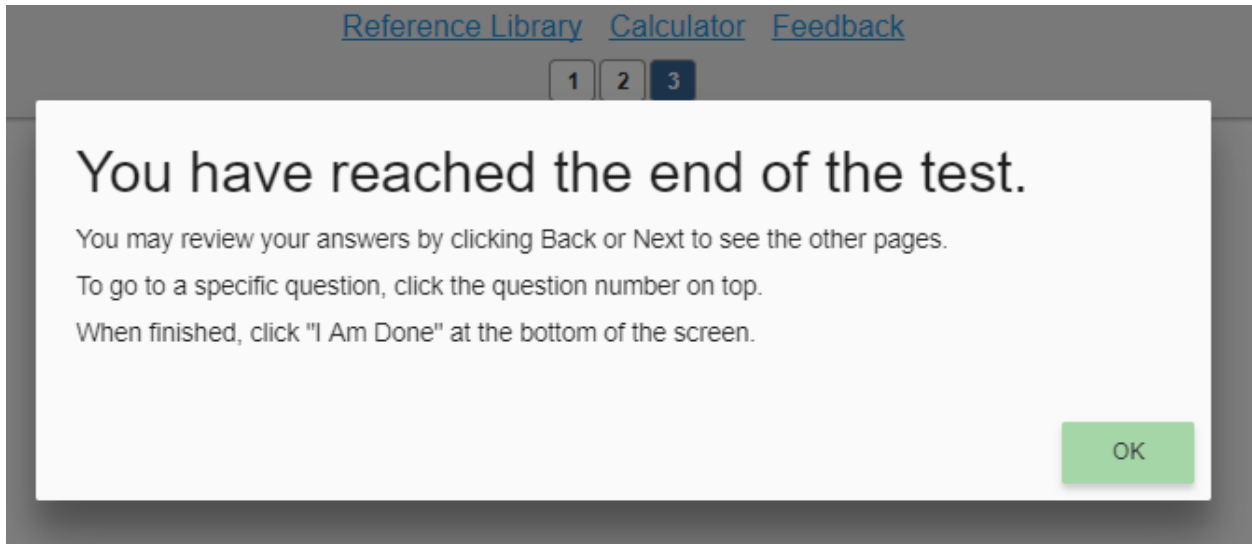


The screenshot displays the examination interface. At the top, there are navigation links: [Reference Library](#), [Calculator](#), and [Feedback](#) (highlighted with a red box). To the right, it shows "Section Time Left - 04:28:16". Below these are three question tabs labeled 1, 2, and 3. The main content area is titled "Question 1" and contains a "Feedback" section with the instruction "Type your feedback on the question here." and a text input field. At the bottom right, there are two buttons: "SEND FEEDBACK" (green) and "CANCEL" (grey). A red arrow points from the text input field to the "SEND FEEDBACK" button.

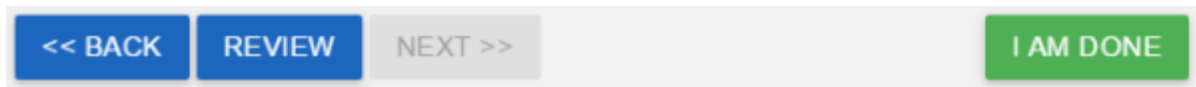
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6. After examinees have answered each question they will be notified that all questions have been completed and asked to review items (if allowed) before clicking the button "I Am Done". After you press "OK", another screen will appear stating "Are you sure?", when you select "Yes", your answers will be submitted.

When you reach the last item in the test, the following popup screen will appear.



You are then able to review your answers to the test questions as long as you have time left, by clicking BACK to see the other pages or, to go to a specific question, click the number at the top in the test map. When you are satisfied, click the I AM DONE button that appears in the lower right corner of your screen to submit your answers.



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7. After the answers are submitted, examinees are shown a screen informing them the test has been completed.
8. Score reports with pass or fail information will be emailed to examinees.



Test has been completed

Pass or Fail Message will show here.

[Return to the examinee login page](#)

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