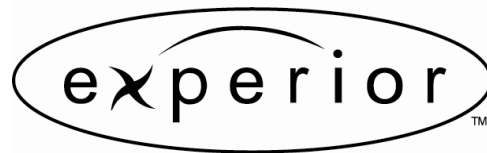

CALIFORNIA

DIVISION OF APPRENTICESHIP STANDARDS

ELECTRICAL CERTIFICATION CANDIDATE INFORMATION BULLETIN

For Examinations December 2002 and Later

Published by



1260 Energy Lane
St. Paul, MN 55108
Telecommunications Device for the Deaf (TDD): 800.790.3926
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Providing Certification Examinations for the State of California

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FOR MORE INFORMATION

Direct all questions and information requests about examinations to:

Experior Assessments, LLC
1260 Energy Lane
St. Paul, MN 55108
Fax: 800.247.9392
TDD User: 800.790.3926
Voice: 800.805.9123

Visit our Web site at www.experioronline.com

Direct all questions about certificate requirements and applications to:

Department of Industrial Relations
Division of Apprenticeship Standards
455 Golden Gate Ave., 8th Floor
San Francisco, CA 94142
415.703.4919
Web site: www.dir.ca.gov/das

PROCESS SUMMARY

- Complete and mail or deliver the application for electrician examination and certification form and fees to the California Department of Industrial Relations, Division of Apprenticeship Standards. Experior must receive approval from the state **BEFORE** you schedule an examination.
- Prepare yourself using the Examination Content Outlines in this Bulletin and study materials that cover the outline topics.
- Read and understand the exam scheduling and rescheduling provisions on Pages 3 and 4.
- Call Experior to schedule your examination.
- Take the exam on the day you have scheduled. Bring proper identification (see *Taking the Examination* on Page 4).

EXAM CONTENT OUTLINES

GENERAL JOURNEYMAN ELECTRICIAN

100 questions — Four-hour time limit
70% Correct Required to Pass

PRINCIPLES	8%
INSTALLATIONS	8%
FUNDAMENTALS	8%
SERVICES, FEEDERS AND BRANCH CIRCUITS	9%
GROUNDING AND BONDING	8%
CONDUCTORS AND CABLES	9%
LOW-VOLTAGE CIRCUITS AND COMMUNICATIONS	4%
SPECIAL OCCUPANCIES	2%
SPECIAL EQUIPMENT	3%
MOTORS	8%
POWER AND CONDITIONING EQUIPMENT	6%
TESTING/TEST EQUIPMENT	5%
LIGHTING	8%
RACEWAYS AND BOXES	8%
EMERGENCY SYSTEMS	3%
FIRE DETECTION AND ALARM SYSTEMS	3%

REFERENCES

The following reference IS PROVIDED in the testing center.
No highlighting or notes of any sort may be made in the book during the exam.

National Electrical Code, NFPA 70, 1999 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101. 800.344.3555. www.nfpa.org.

The following reference has been used to create exam questions but is NOT allowed in the testing center.

American Electricians' Handbook, Fourteenth Edition, 2002, McGraw-Hill Publishing, Inc., P.O. Box 545, Blacklick, OH 43004-1545. 614.759.3663. www.books.mcgraw-hill.com.

RESIDENTIAL JOURNEYMAN ELECTRICIAN

75 questions — Three-hour time limit
70% Correct Required to Pass

PRINCIPLES	8%
INSTALLATIONS	8%
FUNDAMENTALS	8%
SERVICES, FEEDERS AND BRANCH CIRCUITS	11%
GROUNDING AND BONDING	11%
CONDUCTORS AND CABLES	8%
LOW-VOLTAGE SYSTEMS	5%
SPECIAL OCCUPANCIES	5%
SPECIAL EQUIPMENT	6%
MOTORS	4%
POWER AND CONDITIONING EQUIPMENT	5%
TESTING/TEST EQUIPMENT	5%
LIGHTING	8%
RACEWAYS AND BOXES	8%

REFERENCES

The following reference IS PROVIDED in the testing center.
No highlighting or notes of any sort may be made in the book during the exam.

National Electrical Code, NFPA 70, 1999 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101. 800.344.3555. www.nfpa.org.

The following reference has been used to create exam questions but is NOT allowed in the testing center.

American Electricians' Handbook, Fourteenth Edition, 2002, McGraw-Hill Publishing, Inc., P.O. Box 545, Blacklick, OH 43004-1545. 614.759.3663. www.books.mcgraw-hill.com.

FIRE/LIFE SAFETY TECHNICIAN

50 questions — Two-hour time limit

70% Correct Required to Pass

PRINCIPLES	14%
TESTING AND CERTIFICATION OF SYSTEMS	14%
FUNDAMENTALS	14%
FIRE DETECTION AND ALARM SYSTEMS	16%
GROUNDING AND BONDING APPLICATIONS	14%
CONDUCTORS AND CABLES	14%
LOW-VOLTAGE CIRCUITS AND EQUIPMENT	14%

REFERENCES

The following references ARE PROVIDED in the testing center. No highlighting or notes of any sort may be made during the exam.

National Electrical Code, NFPA 70, 1999 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101. 800.344.3555. www.nfpa.org.

National Fire Alarm Code, NFPA 72, 1999 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101. 800.344.3555. www.nfpa.org.

The following reference has been used to create exam questions but is NOT allowed in the testing center.

American Electricians' Handbook, Fourteenth Edition, 2002, McGraw-Hill Publishing, Inc., P.O. Box 545, Blacklick, OH 43004-1545. 614.759.3663. www.books.mcgraw-hill.com.

THE EXAMINATION PROCESS

You must be approved by the State of California prior to scheduling your examination.

Exam Scheduling Process Summary

- **Schedule Appointment:** You must call Experior to schedule your examination appointment.
- **Testing:** Take the exam on the day you have scheduled. Be sure to bring proper identification.
- **Exam Results:** You will receive your score results immediately upon completion of the exam.

Examination Administration through Experior

The state of California has contracted with Experior Assessments, LLC (Experior®) of St. Paul, Minn., to conduct its examination program. Candidates may test at any of Experior's eight California testing centers, which are located in San Diego, San Francisco, Fresno, Fremont, Rancho Cordova, Van Nuys, Cerritos and Colton. Other testing site locations may be added, based on anticipated statewide candidate volume.

All questions and requests for information about examination administration should be directed to:

Experior
1260 Energy Lane
St. Paul, MN 55108
TDD User: 800.790.3926
Voice: 800.805.9123

Scheduling the Examination

APPOINTMENTS AND CANCELLATIONS

Upon receipt of your notice of eligibility (printed on the back cover of this handbook), you must arrange the time and place for taking your examination (original or retake) by calling 800.805.9123 between 5 a.m. and 6 p.m. (Pacific time). You may take your examination at any California Experior testing center. Please see the maps on Pages 7 and 9. Appointments are available six days per week at most centers. Schedule your test early to get your preferred site and time, preferably within 90 days from the date of your notice of eligibility.

If you miss or are late for your appointment, you will forfeit your examination fee. If you need to change it between the time of scheduling and the test date, you must contact Experior one full working day before your appointment to allow time to refill your appointment slot. You may reschedule your examination by calling Experior at 800.805.9123.

There is no testing on the following holidays or weekends on which the holiday falls:

- Martin Luther King Jr. Day
- Presidents' Day
- Memorial Day
- Independence Day and the day before
- Labor Day
- Thanksgiving Day and the day after
- Christmas Day and the day after

INTERNET SCHEDULING

You may schedule your examination online anytime after you have received your notice of eligibility using our Internet Scheduling Service at www.experioronline.com. To use this service on our Web site, follow these easy steps:

- Go to www.experioronline.com and select *Construction*.
- Choose *California* from the list of states provided.
- Click on *Online Registration and Scheduling Services* to create your own user id and password.
- Follow the simple, step-by-step instructions to complete the registration process.
- Complete the process by scheduling your examination appointment online.

RESCHEDULING YOUR APPOINTMENT WITHOUT PENALTY

To change your appointment time, you must call Experior. There must be at least one full business day between the day of your call and the day of your appointment. **Please refer to the schedule below before you call. If you do not allow one full business day, you WILL forfeit your exam fee.**

Please note: the schedule below does not include holidays.

If your exam is on:	Call by 6:00 p.m. Pacific time the previous:
Monday	Thursday
Tuesday	Friday
Wednesday	Monday
Thursday	Tuesday
Friday	Wednesday
Saturday	Thursday

CANCELING YOUR APPOINTMENT OR RESCHEDULING LATE

If you do not allow enough time in rescheduling your appointment (per the chart), you will forfeit your fee and must pay the fee again prior to choosing another appointment. All fees must be paid to the Division of Apprenticeship Standards. Please call Experior at 800.805.9123 to cancel or reschedule your appointment.

ABSENT FROM YOUR APPOINTMENT

If you miss your scheduled examination, you will forfeit your fee.

If you miss or are late arriving for your appointment, you will forfeit your exam fee. You will need to re-register for your exam.

EXAMINATION ELIGIBILITY EXPIRATION

FIRST TIME EXAMINEES: Examination eligibility expires, and an application is deemed abandoned, if the applicant fails to sit for examination within one year after being notified of eligibility.

RE-EXAMINATION APPLICANTS: Examination eligibility expires, and an application is deemed abandoned, if an applicant fails any written examination and does not retake the examination within one year from the date of that failure.

EMERGENCY CLOSING

In the event of severe weather or emergencies, Experior may need to cancel scheduled exams. In this situation, Experior personnel will attempt to contact you via telephone; however, you may check on test site closures by calling Experior registration at 800.805.9123. Exams will be rescheduled at your earliest convenience, without a rescheduling fee, if a site is closed by Experior.

RETAKE AN EXAM

If you do not pass the exam, you must re-apply using another application form. You must wait sixty days between examination attempts. To schedule your retake exam follow the procedures described above. Another exam fee must be paid to the Division.

Special Test Considerations

AMERICANS WITH DISABILITIES ACT (ADA)

If you require a testing accommodation under the *Americans with Disabilities Act* (ADA), please contact Experior to obtain an Accommodation Request Form. Reasonable testing accommodations are provided to allow candidates with documented disabilities, which are recognized under the *Americans with Disabilities Act* (ADA), an opportunity to demonstrate their skills and knowledge. Candidates should submit professional documentation of the disability with their application to help determine the necessary testing arrangements. Thirty days' advance notice is required for all testing arrangements. There is no additional charge for these accommodations.

Note: If English is your second language, a language barrier is not considered a disability.

Appeal Committee

Our goal at Experior is to provide a quality test and a pleasant testing experience to every candidate. If you are dissatisfied with either and believe we can correct the problem, we would like to hear from you. To facilitate this, we provide an opportunity at the end of your exam to make comments on screen at the testing centers, and your comments will be reviewed by Experior personnel, but you will not receive a direct response. You may also contact one of our Candidate Support Specialists at 800.805.9123 to discuss your concern, who will direct it to the individual most appropriate to respond.

We try to resolve candidate concerns at the testing site or on the phone whenever possible. If you feel that your concern has not been resolved, you must put your comments in writing to the following address:

Experior Assessments
ATTN: Appeal Committee
1260 Energy Lane
St. Paul, MN 55108
Fax number: 800.247.9392

If your concern is regarding the content of the exam, you must mail your concern to Experior, as only original signatures can be accepted. No faxes are allowed. If your concern is regarding scheduling or test administration (testing site procedures, equipment, personnel, etc.), you may either mail or fax your concern to Experior. In your letter, include your name, your Social Security number, the name of the exam, the date you tested and a specific description of your concern and the relevant facts surrounding it. Experior and the Division of Apprenticeship Standards will arrive at a resolution, and you will receive a response in writing from the Appeal Committee within 10 business days of receipt at Experior.

Taking the Examination

You do not need computer experience or typing skills to take this examination. You will have a personalized introduction to the testing system and an introductory lesson, which takes place on the computer, before you start your test.

You should arrive at least 15 minutes before your scheduled examination appointment in order to verify your identification, have your photo taken and allow time to sign in.

You must present one valid form of identification that meets all of the following criteria:

- current, valid and government-issued photo identification (driver's license, state-issued identification card or passport);
- the name on the government-issued photo identification must be the same as the name used to register for the examination (including designations such as "Jr." or "III," etc.); and
- must have a current photo and your signature.

FAILURE TO PROVIDE APPROPRIATE IDENTIFICATION AT THE TIME OF THE EXAMINATION IS CONSIDERED A MISSED APPOINTMENT. If you cannot provide the identification as listed above, contact Exporior before scheduling your exam appointment to arrange for an alternative way to meet this requirement.

SECURITY PROCEDURES

The following security procedures will apply during the examination(s):

- no cameras, notes, tape recorders, pagers or cellular phones are allowed in the testing room;
- no guests, visitors or family members are allowed in the testing or reception areas; and
- no valuables, weapons or other personal items should be brought to the testing center. Exporior is not responsible for items left in the reception area.

FAILURE TO FOLLOW ANY OF THESE SECURITY PROCEDURES MAY RESULT IN THE DISQUALIFICATION OF YOUR EXAMINATION.

EXPORIOR RESERVES THE RIGHT TO VIDEOTAPE ANY EXAMINATION SESSION.

Copyrighted Exam Questions

All test questions are the copyrighted property of Exporior Assessments, LLC. It is forbidden under federal copyright law to copy, reproduce, record, distribute or display these test questions by any means, in whole or in part, without our written permission. Doing so may subject you to severe civil and criminal penalties, including up to five years in prison and/or a \$250,000 fine for criminal violations.

Sample Questions

The questions that will appear on your examination are multiple-choice and give you four options from which to choose your answer. The examination will contain questions with three different multiple-choice formats. A sample of each format is shown below. *An asterisk (*) indicates the correct answer.*

FORMAT 1—DIRECT QUESTION

Which of the following saws is used for making straight angle cuts on moldings?

1. Keyhole
2. Coping
- * 3. Miter
4. Hack

FORMAT 2—INCOMPLETE SENTENCE

The quarterly report of withheld taxes and FICA taxes for the period starting April 1 and ending June 30 is due

1. June 30.
2. at the end of each month.
- * 3. July 31.
4. 15 days after the close of the quarter, or July 15.

FORMAT 3—ALL OF THE FOLLOWING EXCEPT

Provisions shall be made to indicate the flow of water in a sprinkler system under all of the following conditions EXCEPT

- * 1. movement in the system due to a surge.
2. a leak equal to the output of the smallest sprinkler in the system.
3. discharge by one or more sprinklers.
4. flow of water equal to the output of the largest sprinkler in the system.

Understanding the Examination Results

EXAMINATION SCORE REPORT

Your score will be based on the number of questions you answer correctly. Be sure to choose an answer for each question. A minimum score of **70 percent** correct is required to pass your examination.

At the end of your examination, your score will be shown on the screen and you will receive a printed score report. Whether you pass or fail the exam, the report will give the numerical percentage of questions answered correctly and the actual number of questions answered correctly. In addition, the score report will show how well you did in each separate area of the exam. This will help you assess your areas of strength and weakness.

Your total percentage score is computed by dividing the number of questions you answered correctly by the total number of questions in the exam. The total score is *NOT* computed by adding the subscore percentages and dividing by the total number of subsections.

Exam reports are transmitted electronically to the Division of Apprenticeship Standards. Exam grades are confidential.

After Passing the Exam

YOUR CERTIFICATION CARD

Your passing score report identifies you as certified until such time as you receive your permanent certification card. Your certification card will be mailed, within two weeks following the examination, to the address you have provided to the Division of Apprenticeship Standards.

CALIFORNIA TESTING CENTERS

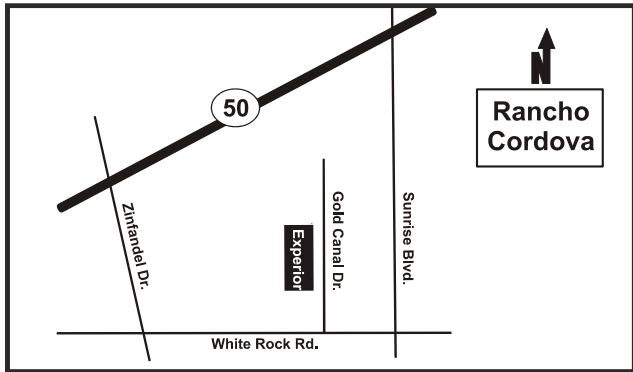
If you are unfamiliar with the area, please contact the testing center during testing hours for directions. Please direct registration, scheduling and any other questions to Experior at 800.805.9123.

MAPS ARE NOT DRAWN TO SCALE.

Rancho Cordova Center

3110 Gold Canal Drive, Suite E
 Rancho Cordova, CA 95670
 Phone: 916.851.8340

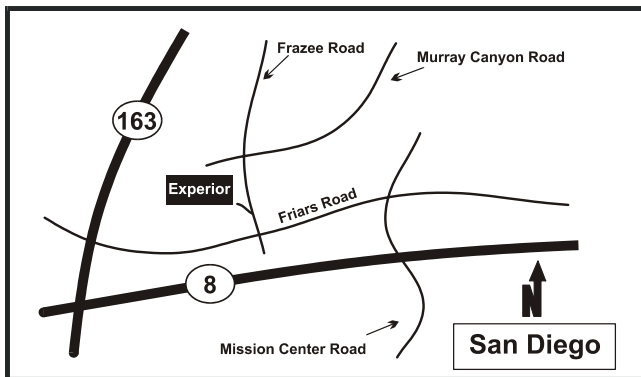
From Highway 50, take either the Sunrise Boulevard or Zinfandel Drive exit and head south. Turn on White Rock Road and turn again onto Gold Canal Drive. The testing center is on your left. Turn into the first driveway on your left to park in front of the building. Additional parking is available around the building.



San Diego Center

1450 Frazee Road, Suite 410
 San Diego, CA 92108
 Phone: 619.574.1840

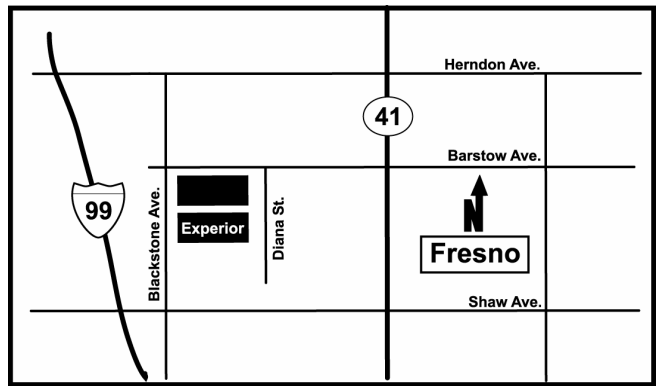
From Highway 163, take the Friars Road exit east to Frazee Road. Turn left (north) on Frazee Road. The testing center is in the building on your left. Parking is available all around the building.



Fresno Center

125 E. Barstow Avenue, Suite 136
 Fresno, CA 93710
 Phone: 559.226.3334

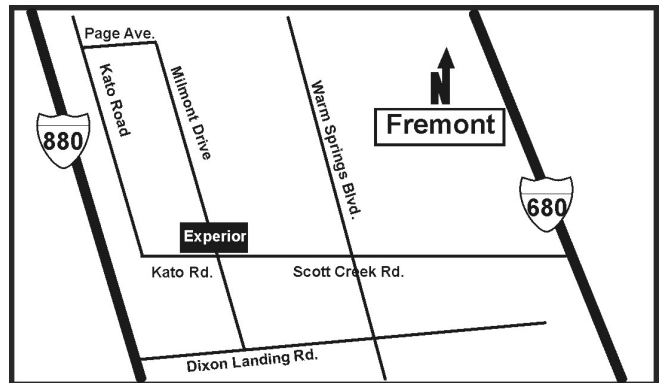
From Highway 41, exit west on Shaw Avenue; turn right (north) on Blackstone Avenue. From northbound I-99, exit east on Shaw Avenue; turn left (north) on Blackstone Avenue. Turn right (east) on Barstow Avenue. At 125 E. Barstow Avenue, turn right on Diana Street, and then right into the parking area. The testing center is located on the corner of Barstow Avenue and Diana Street. Parking is available around the building.



Fremont Center

48860 Milmont Drive, Suite 103C
 Fremont, CA 94538
 Phone: 510.687.0821

From I-880, take the Dixon Landing Road exit. From Dixon Landing Road, turn left on Milmont Drive and go straight through the Kato Road intersection. From I-680, take the Scott Creek Road exit and head west. Scott Creek Road becomes Kato Road. Turn right on Milmont Drive. The testing center is on your right. Parking is available around the building.



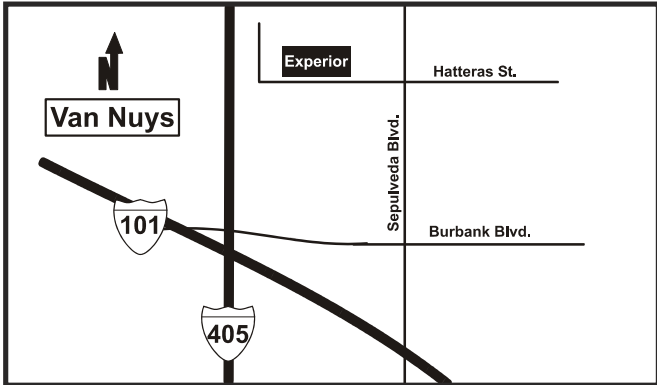
CALIFORNIA TESTING CENTERS (cont.)

Note: Maps are not drawn to scale.

Van Nuys Center

John Laing Homes Building
5805 Sepulveda Boulevard, Suite 601
Van Nuys, CA 91411
Phone: 818.781.9981

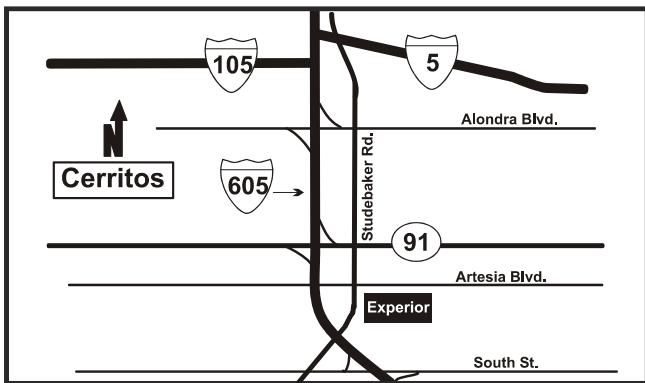
From I-405, take the Burbank Boulevard exit and head east; turn left (north) on Sepulveda Boulevard. The testing center is located at the intersection of Sepulveda Boulevard and Hatteras Street. Paid parking is available in the lot; free parking may be available on the street.



Cerritos Center

Caremore Building
18000 Studebaker Road, Suite 680
Cerritos, CA 90703
Phone: 562.860.1748

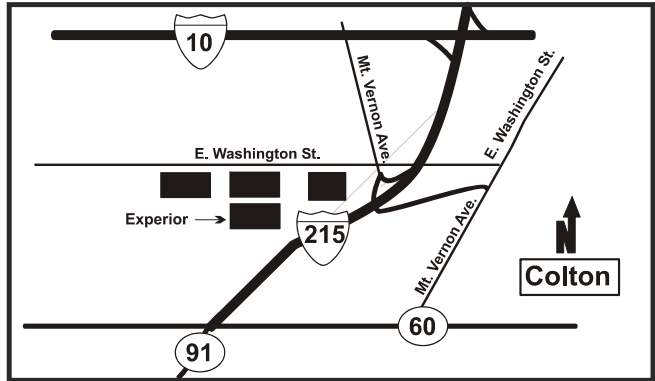
From I-605 South, take the Alondra Boulevard exit, turn left (east) on Alondra Boulevard and right (south) on Studebaker Road. From I-605 North, take the South Street exit; turn left (west) on South Street and right on Studebaker Road. Parking is available around the building.



Colton Center

Rancho Las Palomas
1060 E. Washington Street, Suite 110
Colton, CA 92324
Phone: 909.783.2255

From I-215, take the Mt. Vernon Ave. exit; head west on E. Washington Street. The testing center will be on your left, in the two-story building adjacent to Del Taco. Parking is available around the building.

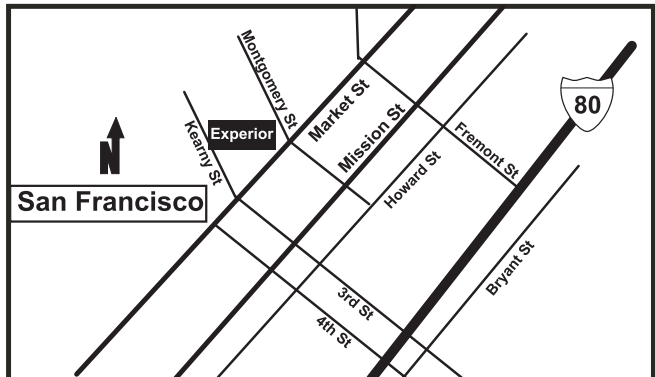


San Francisco Area Center

222 Kearny Street, Suite 603
San Francisco, CA 94108
Phone: 415.834.1357

From I-80 heading south: Take the Fremont Street exit and turn left. At the first intersection, turn left onto Howard Street. Turn right onto Third Street, which becomes Kearny Street. The testing center is on the right-hand side of the road.

From I-80 heading north: Take the Fourth Street exit toward Embarcadero. Turn a slight left onto Bryant Street, then left onto Third Street. Third Street becomes Kearny Street. The testing center is on the right-hand side of the road. Parking is available nearby. Please be prepared to pay for your parking. The nearest BART location is at the intersection of Montgomery Street and Market Street. The building is also accessible by MUNI.





1260 Energy Lane
St. Paul, MN 55108

STATE OF CALIFORNIA
DIVISION OF APPRENTICESHIP STANDARDS

NOTICE OF ELIGIBILITY

The state of California has determined that you are eligible to participate in the examination for certification in the Electrician Certification program. This is the ONLY notice of eligibility you will receive from the Division. We suggest that you retain it for your records. Your address label below contains important date information. Your eligibility code appears on the top line and will be used for exam registration purposes. The second line of the address label is the date your application for examination was approved; following that is the date by which you must take your examination. You must pass your written examination by the date specified on the label, or you will need to reapply with the Division.

This handbook is designed to provide you with information regarding examination procedures and content areas. To schedule your examination, please refer to the instructions in this handbook. Schedule your examination early to get your preferred test center location and date.

**FIRST
CLASS
MAIL**