



## SCOPE OF WORK PROVISIONS

FOR

**ELECTRICIAN:**  
SR. COMMUNICATION & SYSTEM TECNICIAN  
COMMUNICATION & SYSTEM TECHNICIAN

IN

MODOC AND SISKIYOU COUNTIES

## DEPARTMENT OF INDUSTRIAL RELATIONS

Office of the Director – Research Unit  
455 Golden Gate Avenue, 9<sup>th</sup> Floor  
San Francisco, CA 94102

MAILING ADDRESS:  
P. O. Box 420603  
San Francisco, CA 94142-0603



September 23, 2016

**SUMMARY OF IMPORTANT NOTICES CONCERNING BURGLAR ALARM AND FIRE  
ALARM INSTALLATION**

Dear Public Officials/Other Interested Parties:

The Department has issued several important notices between June 27, 2002, and October 27, 2015, specifying the prevailing rate of pay for the installation of burglar and fire alarms. The tables on the following two pages provide a summary of the applicable rates of pay for burglar and fire alarm installation by county as of September 23, 2016. The information in these tables summarizes but **does not** alter the applicable rates of pay issued in the aforementioned important notices.

Please note that minimum rate of pay determinations are issued on a “project-by-project basis.” If you have a public works project in one of the counties listed in the tables that indicates “project-by-project basis,” you may request a minimum rate of pay determination prior to the bid advertisement date of the project by sending a written request to the address below. Each request should include all the relevant documents that would assist the Department in issuing a determination. These documents include but are not limited to the contract, financial documents, plans, specifications, as well as contact information for the Awarding Body.

Please refer to the county determinations to find the rates associated with the craft(s)/classification(s) referenced in the tables. The scope of work for each classification is posted on the Internet at <http://www.dir.ca.gov/oprl/DPreWageDetermination.htm>. This information may also be requested from the Office of the Director – Research Unit by calling (415) 703-4774, by faxing a request to (415) 703-4771 or by writing to:

California Department of Industrial Relations  
Office of the Director – Research Unit  
P.O. Box 420603  
San Francisco, CA 94142

## Table 1: Burglar Alarm Installation

COUNTY	CRAFT/CLASSIFICATION
Alameda	Project-by-Project Basis
Alpine	Electrician: Inside Wireman
Amador	Electrician: Inside Wireman
Butte	Electrician: Inside Wireman
Calaveras	Project-by-Project Basis
Colusa	Electrician: Inside Wireman
Contra Costa	Electrician: Comm & System Installer
Del Norte	Electrician: Comm & System Installer
El Dorado	Electrician: Inside Wireman
Fresno	Electrician: Comm & System Installer
Glenn	Electrician: Inside Wireman
Humboldt	Electrician: Comm & System Installer
Imperial	Electrician: Sound and Signal Technician
Inyo	Electrician: Comm & System Installer
Kern	Project-by-Project Basis
Kings	Electrician: Comm & System Installer
Lake	Electrician: Comm & System Installer
Lassen	Electrician: Inside Wireman
Los Angeles	Electrician: Comm & System Installer
Madera	Electrician: Comm & System Installer
Marin	Electrician: Comm & System Installer
Mariposa	Electrician: Inside Wireman
Mendocino	Electrician: Comm & System Installer
Merced	Electrician: Inside Wireman
Modoc	Project-by-Project Basis
Mono	Electrician: Comm & System Installer
Monterey	Electrician: Comm & System Installer <sup>a</sup>
Napa	Project-by-Project Basis
Nevada	Electrician: Inside Wireman
Orange	Electrician: Sound Installer
Placer	Electrician: Inside Wireman
Plumas	Electrician: Inside Wireman
Riverside	Project-by-Project Basis
Sacramento	Electrician: Inside Wireman
San Benito	Electrician: Comm & System Installer <sup>a</sup>
San Bernardino	Electrician: Comm & System Installer
San Diego	Electrician: Sound and Signal Technician
San Francisco	Electrician: Comm & System Installer
San Joaquin	Project-by-Project Basis
San Luis Obispo	Electrician: Inside Wireman
San Mateo	Project-by-Project Basis
Santa Barbara	Electrician: Sound Installer
Santa Clara	Electrician: Comm & System Installer
Santa Cruz	Electrician: Comm & System Installer <sup>a</sup>
Shasta	Electrician: Inside Wireman
Sierra	Electrician: Inside Wireman
Siskiyou	Project-by-Project Basis
Solano	Project-by-Project Basis
Sonoma	Electrician: Comm & System Installer
Stanislaus	Electrician: Inside Wireman
Sutter	Electrician: Inside Wireman
Tehama	Electrician: Inside Wireman
Trinity	Electrician: Inside Wireman
Tulare	Electrician: Comm & System Installer
Tuolumne	Electrician: Inside Wireman
Ventura	Electrician: Comm & System Installer
Yolo	Electrician: Inside Wireman
Yuba	Electrician: Inside Wireman

**Notes:** <sup>a</sup> Installation of conduit, boxes, cables, and devices is performed at the Inside Wireman rate, and the final connection and programming is performed at the Communication and System Installer rate.

**Last updated:** September 23, 2016

## Table 2: Fire Alarm Installation

COUNTY	CRAFT/CLASSIFICATION
Alameda	Project-by-Project Basis
Alpine	Electrician: Inside Wireman
Amador	Electrician: Inside Wireman
Butte	Electrician: Inside Wireman
Calaveras	Project-by-Project Basis
Colusa	Electrician: Inside Wireman
Contra Costa	Electrician: Comm & System Installer
Del Norte	Electrician: Inside Wireman
El Dorado	Electrician: Inside Wireman
Fresno	Electrician: Inside Wireman <sup>a</sup>
Glenn	Electrician: Inside Wireman
Humboldt	Electrician: Inside Wireman
Imperial	Electrician: Sound and Signal Technician
Inyo	Electrician: Comm & System Installer
Kern	Electrician: Inside Wireman
Kings	Electrician: Inside Wireman <sup>a</sup>
Lake	Electrician: Inside Wireman
Lassen	Electrician: Inside Wireman
Los Angeles	Electrician: Comm & System Installer
Madera	Electrician: Inside Wireman <sup>a</sup>
Marin	Electrician: Inside Wireman
Mariposa	Electrician: Inside Wireman
Mendocino	Electrician: Inside Wireman
Merced	Electrician: Inside Wireman
Modoc	Project-by-Project Basis
Mono	Electrician: Comm & System Installer
Monterey	Electrician: Inside Wireman <sup>b</sup>
Napa	Project-by-Project Basis
Nevada	Electrician: Inside Wireman
Orange	Electrician: Sound Installer
Placer	Electrician: Inside Wireman
Plumas	Electrician: Inside Wireman
Riverside	Electrician: Comm & System Installer
Sacramento	Electrician: Inside Wireman
San Benito	Electrician: Inside Wireman <sup>b</sup>
San Bernardino	Electrician: Comm & System Installer
San Diego	Electrician: Sound and Signal Technician
San Francisco	Electrician: Inside Wireman
San Joaquin	Project-by-Project Basis
San Luis Obispo	Electrician: Inside Wireman
San Mateo	Project-by-Project Basis
Santa Barbara	Electrician: Inside Wireman
Santa Clara	Electrician: Comm & System Installer
Santa Cruz	Electrician: Inside Wireman <sup>b</sup>
Shasta	Electrician: Inside Wireman
Sierra	Electrician: Inside Wireman
Siskiyou	Project-by-Project Basis
Solano	Project-by-Project Basis
Sonoma	Electrician: Inside Wireman
Stanislaus	Electrician: Inside Wireman
Sutter	Electrician: Inside Wireman
Tehama	Electrician: Inside Wireman
Trinity	Electrician: Inside Wireman
Tulare	Electrician: Inside Wireman <sup>a</sup>
Tuolumne	Electrician: Inside Wireman
Ventura	Electrician: Inside Wireman
Yolo	Electrician: Inside Wireman
Yuba	Electrician: Inside Wireman

**Notes:**

<sup>a</sup> Conduit installation is performed at the Inside Wireman rate, and the termination, setting of devices, wiring of control panel and system performance checks are performed at the Comm & System Installer rate.

<sup>b</sup> Installation of conduit, boxes, cables, and devices is performed at the Inside Wireman rate, and the final connection and programming is performed at the Comm and System Installer rate.

**Last updated:** September 23, 2016

AMENDMENT TO SCHEDULE A

WHEREAS, there presently exists a Schedule A to the Sound and Communications 9<sup>th</sup> District Agreement between the Oregon Pacific-Cascade Chapter, National Electrical Contractors Association and Local Union No. 659 of the International Brotherhood of Electrical Workers, bearing the date of January 1, 2009 through December 31, 2009. The Parties hereby agree to extend this Agreement from January 1, 2010 through December 31, 2010.

WHEREAS, of the Schedule A to the Sound and Communications 9<sup>th</sup> District Agreement provides for amendments to the fringe benefits to be effective January 1, 2010,

NOW, THEREFORE, It is hereby agreed that without terminating or in any manner affecting any provision of said continuing Agreement entered into on the date first mentioned above, said Agreement is hereby amended as follows:

**RECEIVED**  
Department of Industrial Relations

JAN 20 2010

Div. of Labor Statistics & Research  
Chief's Office

SIGNED this 16<sup>th</sup> day of DECEMBER, 2009

SIGNED FOR THE EMPLOYER  
CRATER LAKE DIVISION,  
OREGON PACIFIC-CASCADE  
CHAPTER, NATIONAL ELECTRICAL  
CONTRACTORS ASSOCIATION

By   
Chapter Manager

SIGNED FOR UNION

LOCAL UNION NO. 659,  
INTERNATIONAL BROTHERHOOD  
OF ELECTRICAL WORKERS

By   
Business Manager

**RECEIVED**  
Department of Industrial Relations

JAN 20 2010

Div. of Labor Statistics & Research  
Chief's Office

61-659-1

THE INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS  
LOCAL 659

ADDENDUM TO THE 9<sup>TH</sup> DISTRICT  
SOUND AND COMMUNICATION AGREEMENT  
BETWEEN

THE INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS  
AND

THE INTERNATIONAL ELECTRICAL CONTRACTORS ASSOCIATION,  
OREGON -PACIFIC-CASCADE CHAPTER

RECEIVED  
Department of Industrial Relations

APR 24 2009

Div. of Labor Statistics & Research  
Chief's Office

January 1, 2001 through December 31, 2002

Agreement by and between the signatory NECA Chapters and signatory International Brotherhood of Electrical Workers (IBEW) Local Unions.

It shall apply to all firms who sign a Letter of Assent to be bound by the terms of this Agreement. This Agreement shall have no force or effect unless a firm signatory to a Letter of Assent is also signatory to a Letter of Assent to one or more addendum to this Agreement. All firms must sign a Letter of Assent to the Local Addendum, wherever said firm is performing work covered by this Agreement. Any firm desiring to terminate its Letter of Assent must terminate both Assent to this agreement and Assent(s) to any addendums to which the firm is signatory.

As used hereinafter in this Agreement the term "*Chapter*" shall mean the signatory NECA Chapters and the term "*Union*" shall mean Local Union 659, International Brotherhood of Electrical Workers.

The term "*Employer*" shall mean an individual firm who has been recognized by an assent to this Agreement.

Addendum by and between the signatory Oregon Pacific-Cascade Chapter, NECA and IBEW Local Union #659.

The work covered by this Addendum shall be as outlined in the 9th District Agreement, where not superseded by this addendum, and performed within the jurisdiction of IBEW Local 659.

Only items covered by this Addendum shall supersede the items set forth in the 9th District Sound and Communications Agreement dated December 1, 1997 through November 30, 1999.

## SCOPE

- I. The work covered by this Agreement shall include the installation, testing, service and maintenance, of the following systems which utilize the transmission and/or transference of voice, sound, vision and digital for commercial, education, security and entertainment purposes for the following: TV monitoring the surveillance, background-foreground music, intercom and telephone interconnect, inventory control systems, microwave transmission, multi-media, multiplex, nurse call system, radio page, school intercom and sound, burglar alarms and low voltage master clock systems:

A. SOUND AND VOICE TRANSMISSION/TRANSFERENCE SYSTEMS

1. Background-foreground music
2. Intercom and telephone interconnect systems
3. Telephone systems
4. Nurse call systems
5. Radio page systems
6. School intercom and sound systems
7. Burglar alarm systems
8. Low-voltage master clock systems
9. Multi-media/multiplex systems
10. Sound and musical entertainment systems
11. RF systems
12. Antennas and Wave Guide

B. FIRE ALARM SYSTEMS \*

1. Installation, wire pulling and testing

C. TELEVISION AND VIDEO SYSTEMS

1. Television monitoring and surveillance systems
2. Video security systems
3. Video entertainment systems
4. Video educational systems
5. Microwave transmission systems
6. CATV and CCTV

D. SECURITY SYSTEMS

1. Perimeter security systems
2. Vibration-sensor systems
3. Card access systems
4. Access control systems
5. Sonar/Infrared monitoring equipment



E. COMMUNICATION SYSTEMS THAT TRANSMIT OR RECEIVE  
INFORMATION AND/OR CONTROL SYSTEMS THAT ARE INTRINSIC TO  
THE ABOVE LISTED SYSTEMS (IN THE SCOPE)

1. SCADA (Supervisory Control and Data Acquisition)
2. PCM (Pulse Code Modulation)
3. Inventory Control Systems
4. Digital Data Systems
5. Broadband and Baseband and Carriers
6. Point of Sale Systems
7. VSAT Data Systems
8. Data Communication Systems
9. RF and Remote Control Systems
10. Fiber Optic Data Systems

## SCOPE

II. This work shall be performed in strict conformity with the State Electrical Licensing Laws and applicable rules in the State of Oregon. Any work that is allowed by Oregon Revised Statutes or Administrative Rules covering the licenses designated below may be performed under this Agreement.

- A. **Limited Journeyman Limited Energy.** Limited to installations such as burglar alarms, fire protection signal systems, signal and controls, non-utility owned communication systems, data processing controls, closed circuit TV, MATV and CATV.

This license allows installations of the above types only when the limited electrical energy of the system does not exceed the maximum allowed under Oregon State Licensing requirements for the Limited Journeyman Limited Energy License and are Class II or Class III systems, as defined by Article 725 of the National Electrical Code and installed under the requirements as set forth in Article 725.

- B. **Limited Energy Electronic Technician.** Limited to installations of the maximum allowed under Oregon State Licensing requirements for a Limited Energy Electronic Technician License. This license is limited to communication systems, data processing controls, closed circuit TV, MATV and CATV.

- C. **Limited Energy Heating/Air Conditioning Technician.** This license allows a person to make installations of HVAC thermostat and control wiring when the system does not exceed the maximum allowed under the Oregon State Licensing requirements for Limited Energy Heating/Air Conditioning License and is installed as a Class II or Class III system and meets the requirements of Article 725 of the National Electrical Code.

- D. **Restricted Energy Electrician's License**

Electrician, Limited Energy Technician, Class B (LEB) - Oregon Lic...

[http://licenseinfo.oregon.gov/?fuseaction=licenseicon&link\\_item\\_i...](http://licenseinfo.oregon.gov/?fuseaction=licenseicon&link_item_i...)

## Licenses, Permits and Registrations



License Lookup

Popular Licenses

Applications/Registrations

Other Resources

Help

Detailed Information for:

**Electrician, Limited Energy Technician, Class B (LEB)**

Not the license you were searching for?

Click here to continue searching within the Oregon Licenses, Permits & Registrations directory.

1,534: active as of 10/15/2007.

How useful was this web page?

Updated:

3/14/2008

Description:

This license allows the holder to install, alter, or repair all limited energy systems that do not include protective signaling, including but not limited to:

1. HVAC
2. Medical
3. Boiler controls
4. Intercom and paging systems
5. Clock Systems
6. Data telecommunications Installations
7. Instrumentation (Industrial only)

"Limited energy electrical activity" means installation, alteration, maintenance, replacement or repair of electrical wiring and electrical products that do not exceed 100 volt-amperes in Class 2 and Class 3 installations, or that do not exceed 300 volt-amperes for landscape low voltage lighting systems that are cord connected to a ground fault circuit interrupter receptacle, under the electrical specialty code and the One and Two Family Dwelling Code.

Similar Keywords: low voltage, ltd, security systems, electricians, networking, computer wiring

Statutes, Rules, Ordinances:

ORS 479.  
OAR 918-282

Duration:

3 years or less, depending on the date of issue.

Fees - application, exam, etc.:

\$50.00 application fee. The application fee includes the first license cycle after passing the examination. All application fees are non-refundable.

Responsible Agency:

BCD - Electrical

Examination Information:

Applicants approved to take an examination will be sent a "Letter of Authorization." This letter will explain the procedure for taking the examination and the address and telephone number of the test site selected.

Examination date and time is scheduled by the applicant with the test site office personnel. Upon arrival at the test site, the applicant must provide photo identification and a Letter of Authorization. If the examination is not taken within 60 days of the date of the authorization letter the applicant must submit a re-application form with the appropriate fee to schedule another exam date.

If the applicant fails the exam they must wait 30 days before they may re-apply.

Applicants are requested to bring their own pencils and calculator; scratch paper will be provided. Programmable calculators and laptop computers are not permitted.

Please allow two weeks for Building Codes Division to grade exams. Do not contact the test location for grade results. The Building Codes Division will mail notification of grade results to the applicant. Licenses will be issued after the applicant has passed the examination.

Limited Energy Technician Class B:

Open-book examination: 28 multiple-choice questions (two-hour time limit).

Only the following materials are permitted for OPEN-BOOK examinations:

- \* Current NEC Book
- \* Current Oregon Electrical Specialty Code
- \* Current NEC Handbook
- \* Tom Henry Key Word Index
- \* Ferm's Fast Finder Index
- \* Ugly's Reference
- \* American Electrician's Handbook
- \* Oregon Administrative Rules
- \* Oregon Revised Statutes

Electrician, Limited Energy Technician, Class A (LEA) - Oregon Lic...

[http://licenseinfo.oregon.gov/?fuseaction=license:icon&link\\_item\\_i...](http://licenseinfo.oregon.gov/?fuseaction=license:icon&link_item_i...)

## Licenses, Permits and Registrations



License Lookup

Popular Licenses

Applications/Registrations

Other Resources

Help

Detailed Information for: **Electrician, Limited Energy Technician, Class A (LEA)**

Not the license you were searching for?

Click here to continue searching within the Oregon Licenses, Permits &amp; Registrations directory.

2,426: active as of 10/15/2007.

How useful was this web page?

Updated:

9/23/2008

Description:

This license allows the person to install, alter and repair all limited energy systems.

"Limited energy electrical activity" means installation, alteration, maintenance, replacement or repair of electrical wiring and electrical products that do not exceed 100 volt-amperes in Class 2 and Class 3 installations, or that do not exceed 300 volt-amperes for landscape low voltage lighting systems that are cord connected to a ground fault circuit interrupter receptacle, under the electrical specialty code and the One and Two Family Dwelling Code.

Similar Keywords: low voltage, ltd, security systems, electricians, networking, computer wiring

Statutes, Rules, Ordinances:

ORS 479  
OAR 918-282

Duration:

3 years or less, depending on the date of issue.

Fees - application, exam, etc.:

\$50.00 application fee. The application fee includes the first license cycle after passing the examination. All application fees are non-refundable.

Responsible Agency:

BCD - Electrical

Examination Information:

Applicants approved to take an examination will be sent a "Letter of Authorization." This letter will explain the procedure for taking the examination and the address and telephone number of the test site selected.

Examination date and time is scheduled by the applicant with the test site office personnel. Upon arrival at the test site, the applicant must provide photo identification and a Letter of Authorization. If the examination is not taken within 60 days of the date of the authorization letter the applicant must submit a re-application form with the appropriate fee to schedule another exam date.

If the applicant fails the exam they may re-apply at anytime and test no sooner than 30 days after each failed exam.

Applicants are requested to bring their own pencils and calculator; scratch paper will be provided. Programmable calculators and laptop computers are not permitted.

Please allow two weeks for Building Codes Division to grade exams. Do not contact the test location for grade results. The Building Codes Division will mail notification of grade results to the applicant. Licenses will be issued after the applicant has passed the examination.

Limited Energy Technician Class A examination:

Open-book examination: 52 multiple-choice questions (three-hour time limit).

Only the following materials are permitted for OPEN-BOOK examinations:

- \* Current NEC Book
- \* Current Oregon Electrical Specialty Code
- \* Current NEC Handbook
- \* Tom Henry Key Word Index
- \* Fern's Fast Finder Index
- \* Ugly's Reference
- \* American Electrician's Handbook
- \* Oregon Administrative Rules
- \* Oregon Revised Statutes

Licensing and Certification Examination Process

Continuing Ed Requirements:

During each three-year license cycle, all licensees shall complete a minimum of 8 hours approved code change continuing education, unless otherwise directed by the board. Please see the Electrical Calendar at [Training & Continuing Education](#)

# Requirements for the California

## Electrician Certification Program

### Electrician certification program

español

#### To All Electricians working for C-10 Contractors

#### Who needs to be certified to work in California as an electrician?

Electricians who work for a contractor with a class C-10 license.

#### What do I need to do to work as an electrician for a contractor licensed as Class C-10 in California?

You can work as an electrician for a class C-10 contractor if...

You have on the job experience of at least...

You have some on the job experience, but not the required amount.

You are a registered apprentice participating in a state approved apprenticeship program.

You have decided to embark on a career as an electrician and have no experience or related instruction.

General electrician

8,000 hours  
Sign up for and pass the exam

Some on the job experience - general electrician

Registered apprentice - general electrician

No on the job experience or instruction - general electrician

Residential electrician

4,800 hours  
Sign up for and pass the exam

Some on the job experience - residential electrician

Registered apprentice - residential electrician

No on the job experience or instruction - residential electrician

Fire/life/safety technician

4,000 hours  
Sign up for and pass the exam

Some on the job experience - fire/life/safety technician

Registered apprentice - fire/life/safety technician

No on the job experience or instruction - fire/life/safety technician

Voice data video technician

4,000 hours  
Sign up for and pass the exam

Some on the job experience - voice/data/video technician

Registered apprentice - voice/data/video technician

No on the job experience or instruction - voice/data/video technician

Non-residential lighting technician

4,000 hours  
Sign up for and pass the exam

Some on the job experience - non-lighting technician

Registered apprentice - non-lighting technician

No on the job experience or instruction - non-lighting technician

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Oregon's LEA license corresponds to our (Local) Senior Communication & System Tech.

Oregon's LEB license corresponds to our (Local) Communication & System Tech.