

# Narrative Template for NCCER Electrical Applications Program

The Chancellor's Office requires the following information for all submitted degrees and certificates of achievement. More information is available in the [Program and Course Approval Handbook](#).

<b>Section Title</b>	<b>Instructions</b>	
<p><b>Item 1. Program Goals and Objectives</b></p>	<p>Goals and objectives must be consistent with California Community College mission: transfer or occupational</p> <p>If a transfer degree, describe how these courses will meet the lower division requirements of a major at a university and list the university(ies) to which students will be able to transfer upon completion of AA/AS degree program.</p> <p>If not-for-transfer degree (CTE), note how the degree meets community needs and focuses on a specific body of knowledge or area of skill.</p>	<p>There is a need for California state certified electricians. College of the Sequoias has been certified by the Division of Apprenticeship Standards (DAS) to provide electrician training for individuals who seek training to become certified. This program prepares them for the California Electrician Certification Examination. The program meets the mission of the college by providing learning that leads to productive work. The program is also an integral part of Career Technical Education (CTE) here at COS.</p> <p>The COS electrician program offers students the National Center for Construction Education and Research (NCCER) industry certification for electrical workers. As part of the industry certification process, changes were made in the lecture and laboratory hour configuration to incorporate new electrical codes standards as outlined in the National Electrical Code® 2013 manual requiring more lecture hour equivalents to cover the new standards. The change to the lecture and lab configuration has resulted in an increase in units from 3 to 4. The courses were originally approved in 2006 as 4 unit courses.</p>
<p><b>Item 2. Catalog Description</b></p>	<p>Enter EXACTLY as it will appear in the catalog, including program outcomes.</p>	<p>This certificate prepares students for entry-level employment in the field of NCCER Electrical Applications. Students completing this certificate will acquire skills, knowledge, and abilities to prepare individuals for the California Electrician Certification Examination. EMPLOYMENT OPPORTUNITIES: Upon successful completion of this NCCER Electrical Applications certificate, the previous NCCER Electrical Theory certificate, and the passing of the California Electrician Certification Examination, students will be prepared for employment in the following fields: State of California Certified Electrician.</p>
<p><b>Item 3. Program Requirements</b></p>	<p>Display in the table format (see below).</p>	<p>See Item 3. Program Requirements Table below</p>

In part the College of the Sequoias mission states, "College of the Sequoias is a comprehensive community college focused on student learning that leads to **productive work**, lifelong learning, and community involvement..." In 2007 a state law was passed requiring electrical workers to become certified electricians. In order to become certified an individual must be enrolled in a certified training program, which COS is, have 8,000 hours of documented electrical work and pass the state exam. The college is providing this training as part of its mission. The new governance model provides a system for accomplishing the college's mission through the Master Planning process which includes a strategic plan, institutional program review, resource allocation, implementation of the planning process, student learning outcome assessments and a annual college report on the master plan.

**COS Electrician Training Program**

Semester	Sections	Enrollments
Fall-2006	10	193
Spring-2007	16	341
Summer-2007	1	39
Fall-2007	23	418
Spring-2008	20	378
Fall-2008	26	487
Spring-2009	29	508
Fall-2009	34	248
Spring-2010	31	246
Fall-2010	20	267
Spring-2011	18	304
Fall-2011	21	105
Spring-2012	5	62

Address how the proposed program will fulfill the college's mission, the placement of the proposed program in the district master plan, and how the program is appropriate to the objectives and conditions of higher education and community college education in California.  
 A description of the program purpose, and/or the program's relevancy for the region and college including related community support is appropriate here.  
 The proposal must demonstrate a need for the program that meets the stated goals and objectives in the region the college proposes to serve with the certificate. Furthermore, a proposed new certificate must not cause undue competition with an existing program at another college.

This item should justify the number of projected students or "annual completers" to be awarded the certificate each year after the program is fully established. The justification must include either:  
 (A) **enrollment data** (student headcount) or  
 (B) **a survey of prospective students and completer projections information**  
**Enrollment Data**  
 Use a table format (sample provided below) to provide final (not census) enrollment data for all required existing courses for the last two years to validate the need for this program in the college service area.  
**Survey**  
 In the case of a survey, the survey questionnaire, a description of the population surveyed, and survey results must be included.  
 If the associate degree program goal selected is "Career

**Item 4. Master Planning**

**Item 5. Enrollment and Completer Projection**

	Fall-2012	5	102
	Spring-2013	5	88
	Fall-2013	6	104
	Spring-2014	5	120

<p><b>Item 6. Place of Program in Curriculum/Similar Programs</b></p>	<p>Address the following:</p> <p>a) Do any active inventory records need to be made inactive or changed in connection with the approval of the proposed program? If yes, please specify.</p> <p>b) Does the program replace any existing program(s) on the college's inventory? Provide relevant details if this program is related to the termination or scaling down of another program(s).</p> <p>c) What related programs are offered by the college?</p>	<p>a. No</p> <p>b. No, student demand is highest for ET 200, 201, 202 and 203 and less for ET 204, 205, 206 and 207 because students are getting jobs and finishing their certification and do not stay in the program to finish the current certificate. Splitting the certificate into two parts will improve certificate completions and student access.</p> <p>c. The college will now offer two certificates in electrical training versus just one large unit certificate.</p>
<p><b>Item 7. Similar Programs at Other Colleges in Service Area</b></p>	<p>Describe all similar programs offered by colleges within college service area (West Hills, Reedley, Porterville). A brief description of each program is required. For CTE programs are similar to those at other colleges, provide evidence of collaboration with the faculty from those programs (consultation calls, sharing of ideas, resources, collaboration in designing courses, etc.).</p>	<p>None</p>

**Item 3. Program Requirements Table**

Requirements (Course blocks)	Course Number	Course Title	Units	CSU-GE Area	IGETC Area	Sequence (if applicable)
Required Courses (16 units)	ET204	ELECTRICIAN TRAINING 4	4	Non Applicable	Non Applicable	Year 1, Fall 2015
	ET205	ELECTRICIAN TRAINING 5	4	Non Applicable	Non Applicable	Year 1, Spring 2016
	ET206	ELECTRICIAN TRAINING 6	4	Non Applicable	Non Applicable	Year 2, Fall 2016
	ET207	ELECTRICIAN TRAINING 7	4	Non Applicable	Non Applicable	Year 2, Spring 2017

**Item 5. Enrollment Data Table**

Course Number	Course Title	Year 1		Year 2	
		Annual # of Sections	Annual Enrollment Total	Annual # of Sections	Annual Enrollment Total
ET204	ELECTRICIAN TRAINING 4	1	24		
ET205	ELECTRICIAN TRAINING 5	1	24		
ET206	ELECTRICIAN TRAINING 6			1	24
ET207	ELECTRICIAN TRAINING 7			1	24

# Program Requirements

## Certificate of Achievement in NCCER Electrical Applications

Division: Industry and Technology

This certificate prepares students for entry-level employment in the field of NCCER Electrical Applications. Students completing this certificate will acquire skills, knowledge, and abilities to prepare individuals for the California Electrician Certification Examination.

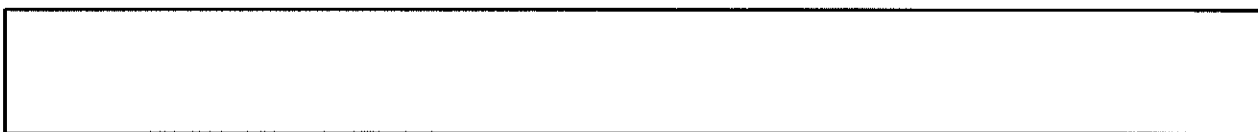
### PROGRAM REQUIREMENTS:

At the end of this program, students will be prepared to take the "applications" portion of the California Electrician Certificate Examination.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this NCCER Electrical Applications certificate, the previous NCCER Electrical Theory certificate, and the passing of the California Electrician Certification Examination, students will be prepared for employment in the following fields: State of California Certified Electrician.

			<u>UNITS</u>
<b>1. Required Courses</b>			
A. ET204	Electrician Training 4		4
B. ET205	Electrician Training 5		4
C. ET206	Electrician Training 6		4
D. ET207	Electrician Training 7		4
	<b>Required Courses Units:</b>		16
	<b>Total Units:</b>		16

Most courses have pre-requisites and must be taken in the appropriate order as listed in the certificate.



The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry and Technology Division Chair.

# *Advisory Members / Meeting Summary*

## **NCCER Certificates of Achievement**

### **List of Members and Advisory Committee**

Ken Rebensdorf-Southern California Edison

Laura Barnes-Associated Builders and Contractors

Louann Waldner-Center for Applied Technologies

Ray Rawn-BICS Training Center

Randy Wallace-Tulare County Office of Education

Rolando Gonzalez-College of the Sequoias

Rebecca Hulseby-Associated Builders and Contractors

### **Recommendations of Advisory Committee**

According to our NCCER Electrical Theory Advisory Committee there is a growing need for qualified entry level (and above) electricians with this expertise. The College of the Sequoias Industry & Technology Division offers a great deal of degrees and certificates in various fields. However, we feel that a certificate in NCCER Electrical Theory is a growing need here in the valley. This need is not currently being met.

# NCCER Electrical Applications – Certificate of Achievement

## Labor Market Information:



State of California  
**Employment Development Department**

Office Locator | Forms & Publications | Online Services | en Español

This Site • California

[Home](#)
[Unemployment](#)
[Disability](#)
[Jobs & Training](#)
[Payroll Taxes](#)
[Labor Market Info](#)

---

### Occupation Profile

**Electricians**  
(SOC Code : 47-2111)  
in Tulare County

Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems. Exclude "Security and Fire Alarm Systems Installers" (49-2098).

Employers usually expect an employee in this occupation to be able to do the job after Long-term on-the-job training (> 12 months).

[View a Career Video for this occupation from America's Career InfoNet \(requires Windows Media Player\)](#)

Tulare County is the same as Visalia-Porterville MSA

[Change Occupation](#)

[Printer Version](#)

---

### Occupational Wages

Area	2013	1st Qtr	2014	2nd Qtr	2015	3rd Qtr
Visalia-Porterville MSA	\$23.44	\$19.56	\$23.74	\$27.63		

[View Wages for All Areas](#) [About Wages](#)

---

### Occupational Projections of Employment (also called "Outlook" or "Demand")

Area	2010 - 2020	2010	2015	2020
Tulare County	428	510	80	18.6

[View Projections for All Areas](#) [About Projections](#)

---

### Job Openings from JobCentral National Labor Exchange

Enter a Zip Code:  [Find a Zip code in Tulare County](#)

Within: 25  miles of Zip Code: