

Narrative Template for NCCER Electrical Theory 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](#).

Section Title	Instructions	
<p>Item 1. Program Goals and Objectives</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>Item 2. Catalog Description</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 Theory. 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 Theory certificate, the subsequent NCCER Electrical Applications 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>Item 3. Program Requirements</p>	<p>Display in the table format (see below).</p>	<p>See Item 3. Program Requirements Table below</p>

Item 4. Master Planning

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.

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.

Item 5. Enrollment and Completer Projection

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

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

	<p>Technical Education (CTE),” then the enrollment and completer projections must be compared to the net annual labor demand projection stated in the Labor Market Information and Analysis provided as Supporting Documentation. The data must demonstrate adequate demand for the completer projections.</p>	<table border="1"> <tr> <td>Fall-2012</td> <td>5</td> <td>102</td> </tr> <tr> <td>Spring-2013</td> <td>5</td> <td>88</td> </tr> <tr> <td>Fall-2013</td> <td>6</td> <td>104</td> </tr> <tr> <td>Spring-2014</td> <td>5</td> <td>120</td> </tr> </table> <p>With the reduction in budgets and FTES the electrical training program has been reduced to 5-6 sections per semester with an enrollment of about 85-110 students each semester.</p>	Fall-2012	5	102	Spring-2013	5	88	Fall-2013	6	104	Spring-2014	5	120
Fall-2012	5	102												
Spring-2013	5	88												
Fall-2013	6	104												
Spring-2014	5	120												
<p>Item 6. Place of Program in Curriculum/Similar Programs</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>Item 7. Similar Programs at Other Colleges in Service Area</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)	ET200	INTRODUCTION TO ELECTRICIAN TRAINING	4	Non Applicable	Non Applicable	Year 1, Fall 2014
	ET201	ELECTRICIAN TRAINING 1	4	Non Applicable	Non Applicable	Year 1, Spring 2015
	ET202	ELECTRICIAN TRAINING 2	4	Non Applicable	Non Applicable	Year 2, Fall 2015
	ET203	ELECTRICIAN TRAINING 3	4	Non Applicable	Non Applicable	Year 2, Spring-2016

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
ET200	INTRODUCTION TO ELECTRICIAN TRAINING	2	45	2	45
ET201	ELECTRICIAN TRAINING 1	2	45	2	45
ET202	ELECTRICIAN TRAINING 2	2	45	2	45
ET203	ELECTRICIAN TRAINING 3	2	45	2	45

Program Requirements

Certificate of Achievement in NCCER Electrical Theory

Division: Industry and Technology

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

PROGRAM OUTCOMES:

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

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this NCCER Electrical Theory certificate, the subsequent NCCER Electrical Applications 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.

UNITS

1. Required Courses

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

A. ET200	Intro to Electrician Training	4
B. ET201	Electrician Training 1	4
C. ET202	Electrician Training 2	4
D. ET203	Electrician Training 3	4
	Required Courses Units:	16
	Total Units:	16

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 Mbrs/ 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 Hulseley-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 Theory – Certificate of Achievement

Labor Market Information:

The screenshot shows the 'Occupation Profile' page for Electricians (SOC Code: 47-2111) in Tulare County. The page includes a navigation menu, a search bar, and a 'Change Occupation' button. The main content area provides a description of the occupation, notes that employers usually expect long-term on-the-job training, and provides a link to view career videos. It also includes a table for Occupational Wages and Occupational Projections of Employment.

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" (49-2000).

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.

Occupational Wages

Area	Year	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Annual
Visalia-Porterville MSA	2013	\$23.44	\$19.56	\$23.74	\$27.53	

View Wages for All Areas About Wages

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

Area	Period	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Tulare County	2010 - 2020	420	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