



*Changing Lives,  
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Louisiana  
Community  
& Technical  
College System

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Baton Rouge, LA 70806

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[www.lctcs.edu](http://www.lctcs.edu)

## LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM

**TO:** Dr. Monty Sullivan  
LCTCS President

**THROUGH:** Dr. René Cintrón *RC*  
Chief Education and Training Officer

**FROM:** Dr. Adrienne Fontenot *AF*  
Director of Adult Learning and Educational Programs

**DATE:** September 23, 2019

**SUBJECT:** Program Requests at Central Louisiana Technical Community College

**APPROVED**  
*Slk* 10/9/19  
LCTCS BOARD OF SUPERVISORS

### FOR BOARD ACTION:

**Recommendation:** Staff recommends the Board approve the following program requests listed below.

#### Program Additions

1. Career and Technical Certificate (CTC), Electrician Helper (CIP 46.0602) with an IBC in NCCER Core from the National Center for Construction Education and Research (NCCER) – **5 STARS**

#### Program Modifications

2. Technical Diploma (TD) Electrician: Industrial to Electrician Technology (CIP 46.0302) – **5 STARS**
3. Technical Diploma (TD) Commercial Wiring I to Commercial Wiring (CIP 46.0302) – **5 STARS**
4. Certificate in Technical Studies (CTS) Residential Electrician (CIP 46.0302) – **5 STARS**

#### Program Terminations

5. Technical Diploma (TD) Commercial Wiring II (CIP 46.0302) – **4 STARS**
  - a. Certificate of Technical Studies (CTS) – ELEC: Energy Systems Technician (CIP 46.0302) – **4 STARS**
    - i. Technical Competency Area (TCA) – Electrician Helper (CIP 46.0602) – **3 STARS**
    - ii. Technical Competency Area (TCA) – ELEC: Solar Systems Installer (CIP 46.0302) – **3 STARS**



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**Background:** Central Louisiana Community and Technical College proposes the addition of a new credential to the Electrician Technology program along with two names changes and one change in hours from 33 to 31 in the Residential Electrician program. The deleted award levels are inactive and therefore will have no effect on enrollment.

**Fiscal Impact:** There is no fiscal impact due to the proposed changes.

**History of Prior Actions:** The program was last modified in December 2015.

**Benefits to the System:** Changes are being made to align the curriculum to industry needs. Students and employers will benefit from the improved curriculum.

  
Approved for Recommendation to the Board  
Dr. Monty Sullivan

10-09-19  
Date

## Electrician Technology - 08/29/2019

**TYPE OF PROPOSED CHANGE :** Curriculum Modification

**PROGRAM NAME :** Electrician Technology

### AWARD LEVEL(S)

**For Board of Regents and LCTCS Review:**

**Name:**

**For LCTCS Review:**

Technical Diploma (T.D.)

Certificate of Technical Studies (C.T.S.)

Career and Technical Certificate (C.T.C)

TCA - For Archive Purpose Only

### NAME OF PROGRAM(S) and AWARD LEVEL(S)

**Stars : 5 Stars**

**Name:** ELECTRICIAN TECHNOLOGY

**Program Delivery Mode:** Hybrid

**CIP:** 46.0302

**Credit Hours:** 45.00

**Contact Hours:** 1350.00

Technical Diploma (T.D.)

**Name:** COMMERCIAL WIRING

**Program Delivery Mode:** Hybrid

**CIP:** 46.0302

**Credit Hours:** 50.00

**Contact Hours:** 1545.00

Technical Diploma (T.D.)

**Stars : 5 Stars**

**Name:** RESIDENTIAL ELECTRICIAN

**Program Delivery Mode:** Hybrid

**CIP:** 46.0302

**Credit Hours:** 31.00

**Contact Hours:** 885.00

Certificate of Technical  
Studies (C.T.S.)

**Stars : 5 Stars**

**Name:** ELECTRICIAN HELPER

**Program Delivery Mode:** Hybrid

**CIP:** 46.0302

**Credit Hours:** 15.00

**Contact Hours:** 390.00

Career and Technical  
Certificate (C.T.C)

<b>IBC:</b> NCCER Core	<b>Issuing Body:</b> NCCER	<b>Course Title:</b> NCCER Core	<b>Course Prefix:</b> ELEC	<b>Course Number:</b> 1100	<b>Credits Awarded:</b> 2.00	<b>IBC Awarded upon Completion?:</b>
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### PROPOSED CHANGE

a) For New Programs, state the purpose and objective; b) For Curriculum Modifications, state previous credit and clock hours; c) For Program Termination, state program and all award levels; d) For Curriculum Adoption, state the college from which curriculum is being adopted and the date it was approved by LCTCS.

Deletion of four credentials from the Electrician Technology program (CIP 460602):

TD – COMMERCIAL WIRING II (45 credit hours)  
TCA – ELECTRICIAN HELPER (13 credit hours)  
TCA – ELEC: SOLAR SYSTEMS INSTALLER (12 credit hours)  
CTS – ELEC: ENERGY SYSTEMS TECHNICIAN (33 credit hours)

Addition of a new credential to the Electrician Technology program (CIP 460602):

CTC – ELECTRICIAN HELPER (14 credit hours)

Award name changes and credit hour changes:

1. Change the Technical Diploma currently titled ELECTRICIAN: INDUSTRIAL (CIP 460302, 47 credit hours) to ELECTRICIAN TECHNOLOGY (45 credit hours).  
2. Change the Technical Diploma currently titled COMMERCIAL WIRING I (CIP 460302, 47 credit hours) to COMMERCIAL WIRING (50 credit hours).

Credit hour change:

CTS – RESIDENTIAL ELECTRICIAN (33 to 31 credit hours).

### IMPLEMENTATION DATE (Semester and Year)

Spring 2020

### HISTORY OF PRIOR ACTIONS

Provide an overview of changes to this program.

The program was last modified in December 2015.

### JUSTIFICATION FOR THE PROPOSED CHANGE

Include support such as four-year university agreements, industry demand, advisory board information, etc.

The deleted award levels are inactive. Deletion of these awards will have no effect on enrollment. The change of the Technical Diploma currently titled ELECTRICIAN: INDUSTRIAL to ELECTRICIAN TECHNOLOGY is being done due to the fact the the TD does not train students to be an Industrial electrician.

### SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION: Main Campus, Sites (list below)

Sabine Valley Campus, Many LA

### QUALIFIED FACULTY (Check all that apply)

<b>Use Existing Faculty: Yes</b>  <b># - Full Time: 2</b>  <b># - Part Time: 1</b>	<b>Hire Adjunct Faculty: No</b>  <b># - 0</b>	<b>Hire Full-Time Faculty: No</b>  <b># - 0</b>
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<b>ADMINISTRATION and IMPLEMENTATION COSTS</b>		
<b>Department :</b>		
<b>How will this change affect the administrative structure and/or allocation of departmental funds in terms of:</b>		
<b>Faculty :</b>	<b>Facilities :</b>	<b>Library Resources :</b>
<b>Support :</b>	<b>Related Fields :</b>	<b>Other :</b>

<b>MINIMUM CREDENTIALS REQUIRED FOR FACULTY</b>		
<b>Education: T.D.</b>	<b>Experience: 3 year's work experience</b>	<b>Certification: NCCER</b>

<b>FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS</b>
<b>Department : Construction</b>
<b>Describe how this change will affect the administrative structure and/or allocation of departmental funds in terms of faculty, facilities, support, and any other resources.</b>
There is no fiscal impact due to the proposed changes.

<b>ANTICIPATED ENROLLMENT:</b>					
<b>Students</b>	<b>Year One</b>	<b>Year Two</b>	<b>Year Three</b>	<b>Year Four</b>	<b>Year Five</b>
<b>DAY</b>	78	80	85	85	85
<b>EVENING</b>					
<b>DISTANCE EDUCATION</b>					
<b>Describe Process for Attaining &amp; Estimating Enrollment:</b>	Enrollment is based on current enrollment and current enrollment trends.				

<b>PROGRAM ACCREDITATION:</b>
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Is Program Accreditation, Licensure or Certification Required?	No
	Accreditation status: N/A
Type/Name of Program Accreditation, Licensure or Certification Required:	

DESCRIBE IMPLEMENTATION COSTS (Include Faculty, Facilities, Library Resources, etc.)

<b>PROGRAM CURRICULUM</b> Use the template below or insert separate attachment. All modifications should include the OLD and NEW curriculum with changes appropriately noted so that it is visually clear what has been added, deleted and/or changed. Note if any special requirements, such as internships, are part of the curriculum. List all embedded IBCs. If you are adopting curriculum, you do not need to complete this section.							
Subject Code	Course Number	Course Title	Lecture Hours	Lab Hours	Contact Hours	Credit Hours	Clinical Hours
Program, Degree or Concentration:						Credit Hours: 0.00	

<b>BENEFITS TO THE SYSTEM</b>
Discuss how this change will benefit your students, your community, and the LCTCS.
Changes are being made to align the curriculum to industry needs. Students and employers will benefit from the improved curriculum.

<b>KEYWORDS</b>



## ELECTRICIAN TECHNOLOGY (46.0302)

DIVISION: Technical Studies

DEPARTMENT: Construction

### DIPLOMA/CERTIFICATE OPTIONS

CTC – ELECTRICIAN HELPER

CTS – RESIDENTIAL ELECTRICIAN

TD – ELECTRICIAN TECHNOLOGY

TD - COMMERCIAL WIRING

### CURRICULUM

Course No.	Course Title	Lecture	Lab	Total Credit Hrs.	Total Clock Hrs.
ELEC 1100	NCCER Core	1	1	2	60
ELEC 1120	Basic Electricity	2	4	6	165
ELEC 1210	Residential Wiring	2	4	6	165
	CTC – ELECTRICIAN HELPER			14	390
ELEC 2460	Technical Mathematics for Electricians	1	1	2	45
ELEC 1220	Electrical Raceways	0	3	3	105
ELEC 1230	National Electrical Code	1	2	3	105
ELEC 1311	Residential Wiring Installation	1	5	6	165
ELEC 1430	Blueprint Interpretation	1	2	3	75
	CTS – RESIDENTIAL ELECTRICIAN			31	885
CPTR 1000	Introduction to Computers	1	1	2	45
ELEC 1330	Generators/Motors & Transformer Operation	1	2	3	105
ELEC 1440	Motor Controls	1	3	4	165
ELEC 2720	Introduction to Programmable Logic Controllers	1	2	3	120
JOBS 2450	Job Seeking Skills	2	0	2	30
	TD – ELECTRICIAN TECHNOLOGY			45	1350

DRAFT Spring 2020

Deleted Awards

TCA – ELECTRICIAN HELPER

TD – COMMERCIAL WIRING II

TCA – ELEC: SOLAR SYSTEMS INSTALLER

CTS – ELEC: ENERGY SYSTEMS TECHNICIAN

<b>Course No.</b>	<b>Course Title</b>	<b>Lecture</b>	<b>Lab</b>	<b>Total Credit Hrs.</b>	<b>Total Clock Hrs.</b>
	<b>CTS – RESIDENTIAL ELECTRICIAN</b>			<b>32</b>	<b>885</b>
<b>CPTR 1000</b>	<b>Introduction to Computers</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>45</b>
<b>ELEC 1330</b>	<b>Generators/Motors &amp; Transformer Operation</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>105</b>
<b>ELEC 1440</b>	<b>Motor Controls</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>165</b>
<b>ELEC 2720</b>	<b>Introduction to Programmable Logic Controllers</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>120</b>
<b>ELEC 1410</b>	<b>Commercial Wiring</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>195</b>
<b>JOBS 2450</b>	<b>Job Seeking Skills</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>30</b>
	<b>TD – COMMERCIAL WIRING</b>			<b>50</b>	<b>1545</b>