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Louisiana  
Community  
& Technical  
College System

265 South Foster Drive  
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*  
Interim Chief Academic Affairs Officer

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

**SUBJECT:** Program Requests at SOWELA Technical Community College

**DATE:** 11/27/2017

### FOR BOARD ACTION:

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

#### Program Addition

1. Associate of Applied Science (AAS) in Industrial Electrical Technology (CIP 460302) – **5 STARS**

#### Program Modification

1. Technical Diploma in Industrial Electrician to Industrial Electrical Technology (CIP 460302) – **5 STARS**

**Background:** Creating an AAS in Industrial Electrical Technology aligns with a priority in SOWELA's Strategic Plan to pursue company-specific partnerships to support workforce programs. Changing the program from a diploma to a degree is supported by requests from local industry partners. Because the program is currently offered as a Technical Diploma (TD), the proposed transition to an AAS program will have little impact on currently enrolled students. The addition of 15 general education hours to the Technical Diploma (TD) in Industrial Electrical Technology will allow students to pursue an AAS leading to better job opportunities. With the approval of offering the AAS, the title of the TD will need to be changed to maintain consistency.

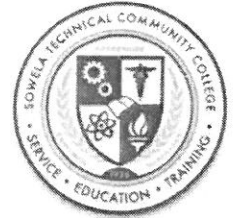
**Fiscal Impact:** Faculty and resources are already allocated under the existing curriculum.

**History of Prior Actions:** There is a history of offering programs new programs to meet student and workforce needs.

**Benefits to the System:** These revisions will allow SOWELA to better meet student and workforce needs.

  
\_\_\_\_\_  
Approved for Recommendation to the Board  
Dr. Monty Sullivan

\_\_\_\_\_  
Date



Explore.  
Experience.  
Excel.

November 10, 2017

Board of Supervisors  
The Louisiana Community and Technical College System  
265 South Foster Drive  
Baton Rouge, LA 70806

Attention: Renee' Cintron, Ph.D.  
Interim Chief Academic Affairs Officer

Dear Dr. Cintron:

The following item from SOWELA Technical Community College is being submitted to the Board of Supervisors for possible consideration at the next Board Meeting.

**New Programs**

- 1) **Associate of Applied Science in Industrial Electrical Technology** (CIP: 460302). SOWELA Technical Community College is requesting the establishment of an Associate of Applied Science (AAS) Degree in Industrial Electrical Technology currently offered as a Technical Diploma (TD) program in Industrial Electrician. The proposal includes the addition of 15 general education hours in the areas of English Composition, Natural Science, College Algebra, Humanities, and Social/Behavioral Sciences along with minor course content adjustments.

**Program Revisions**

- 1) **Change the title of the current Technical Diploma in Industrial Electrician to Industrial Electrical Technology** (CIP: 460302). With the approval of offering an AAS in Industrial Electrical Technology, the title of the TD will have to be changed to **Industrial Electrical Technology** to maintain consistency with TD exit points within an AAS program.
- 2) **Modify Credit Hours for existing exit points as shown in the table below.**

Certificate Type	Certificate Title	Revisions
TCA	Electrician Helper	Change Credit hours from 10 to 13
CTS	Residential Electrician	Change Credit hours from 27 to 28
TD	Industrial Electrician	Change the title to Industrial Electrical Technology
TD	Industrial Electrician	Change the credit hours from 48 to 45

MAIN CAMPUS  
Office: 337.491.2698  
Fax: 337.491.2135  
Toll Free: 800.256.0483  
P.O. Box 16950  
3820 Sen. J. Bennett Johnston Ave.  
Lake Charles, LA 70616

MORGAN SMITH  
Office: 337.824.4811  
Fax: 337.824.5653  
P.O. Box 1327  
1230 N. Main St.  
Jennings, LA 70546




Justification:

The Associate of Applied Science in Industrial Electrical Technology is being created to meet the needs of area industry partners. The revision has been approved by the departmental faculty, advisory committee, SOWELA's Curriculum Review Committee, and the Executive Leadership Team (ELT). Because the program is currently offered as a Technical Diploma, the proposed transition to an AAS program will have little impact on currently enrolled students.

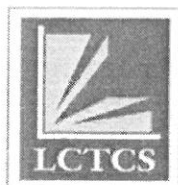
If approved, this change would be effective summer 2018. If you require any additional information, please don't hesitate to phone or email.

Sincerely,

A handwritten signature in cursive script that reads "Paula Hellums".

Paula Hellums  
Vice Chancellor for Academic Affairs

CC: Dr. Neil Aspinwall, Chancellor



## LOUISIANA'S COMMUNITY & TECHNICAL COLLEGE SYSTEM

### New Program and Curriculum Modification Form

<b>TYPE OF PROPOSED CHANGE</b>	
<input type="checkbox"/> New Program	<input checked="" type="checkbox"/> Curriculum Modification

<b>AWARD LEVEL(S)</b>	
Award Level(s): <input checked="" type="checkbox"/> Associate of Applied Science (A.A.S.) <input type="checkbox"/> Associate of Science (A.S.) <input type="checkbox"/> Associate of Arts (A.A.) <input type="checkbox"/> Other Associate Degree <u>Name:</u>	<input checked="" type="checkbox"/> Technical Diploma (T.D.) <input checked="" type="checkbox"/> Technical Competency Area (T.C.A.) <input checked="" type="checkbox"/> Certificate of Technical Studies (C.T.S.) <input type="checkbox"/> Certificate of Applied Science (C.A.S.) <input type="checkbox"/> Certificate of General Studies (C.G.S.)

<b>NAME OF PROGRAM(S) and AWARD LEVEL(S)</b>			
Name: Industrial Electrical Technology			
CIP: 460302	Credit Hours: 60	Contact Hours: 1125	Award Level: AAS
Name: Industrial Electrical Technology			
CIP: 460302	Credit Hours: 45	Contact Hours: 900	Award Level: TD
Name: Residential Electrician			
CIP: 460302	Credit Hours: 28	Contact Hours: 555	Award Level: CTS
Name: Electrician Helper			
CIP:	Credit Hours: 13	Contact Hours: 270	Award Level: TCA

<b>DESCRIBE THE PROPOSED CHANGE (For Curriculum Modifications, state previous credit and clock hours, and for Program Termination, state program and all award levels.)</b>
The proposed change involves adding 15 general education hours to the existing TD program to include the AAS option. The College is also asking to change the title of the existing TD option to Industrial Electrical Technology.

<b>REASON/JUSTIFICATION FOR THE PROPOSED CHANGE (Include support such as four-year university agreements, industry demand, advisory board information, etc.)</b>
--

The Associate of Applied Science in Industrial Electrical Technology is being created to meet the needs of area industry partners. The revision has been approved by the departmental faculty, program advisory committee, SOWELA's Curriculum Review Committee, and the Executive Leadership Team (ELT). Because the program is currently offered as a Technical Diploma, it is necessary to change the title of the TD option to Industrial Electrical Technology to maintain consistency in naming conventions with TD exit points within an AAS degree. Additionally, the transition to offering the program as an AAS program will have little impact on currently enrolled students.

IMPLEMENTATION DATE (Semester and Year)	Summer 2018
---	-------------

SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION		
<input checked="" type="checkbox"/> Main Campus	<input type="checkbox"/> All Campuses	<input checked="" type="checkbox"/> Sites (list below)
Site 1: Morgan Smith Instructional Site, 2110 North Sherman Street, Jennings, LA 70546		
Site 2:		
Site 3:		
Site 4:		

LOUISIANA WORKFORCE COMMISSION STAR LEVEL ( <a href="http://www.laworks.net/Stars/">http://www.laworks.net/Stars/</a> )				
<input checked="" type="checkbox"/> 5 Stars	<input type="checkbox"/> 4 Stars	<input type="checkbox"/> 3 Stars	<input type="checkbox"/> 2 Stars	<input type="checkbox"/> 1 Star

PLAN FOR PROVIDING QUALIFIED FACULTY (Check all that apply)		
<input checked="" type="checkbox"/> Use Existing Faculty #: <u>6</u>	<input type="checkbox"/> Hire Adjunct Faculty #:	<input type="checkbox"/> Hire Full-Time Faculty #:
MINIMUM CREDENTIALS REQUIRED FOR FACULTY		
Education: Technical Diploma, Associate Degree preferred	Experience: 3 years industry experience	Certification:

ANTICIPATED ENROLLMENT:					
Students	Year One	Year Two	Year Three	Year Four	Year Five
<u>DAY</u>	<u>31</u>	<u>32</u>	<u>34</u>	<u>35</u>	<u>37</u>
<u>EVENING</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

<b>ANTICIPATED ENROLLMENT:</b>	
Describe Process for Attaining & Estimating Enrollment:	The anticipated enrollment figures are based on program enrollment for Fall 2017 of 29 students with a projected increase of 5% over the next 5 years.

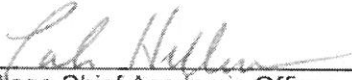
<b>PROGRAM ACCREDITATION:</b>	
Is Program Accreditation, Licensure or Certification Required?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, please provide projected accreditation/licensure/certification date:
Type/Name of Program Accreditation, Licensure or Certification Required:	N/A

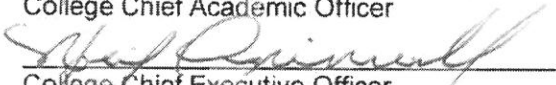
<b>DESCRIBE IMPLEMENTATION COSTS</b> (Include Faculty, Facilities, Library Resources, etc )
<b>Facilities:</b> None. <b>Faculty:</b> Current faculty will be used

<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) The attached template titled Current Industrial Electrician outlines the program BEFORE changes.
See Attached Industrial Electrical Technology

<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) The attached template titled Proposed Industrial Electrical Technology outlines the program AFTER changes.							
<table border="1"> <thead> <tr> <th>Subject Code</th> <th>Course Number</th> <th>Course Title</th> <th>Lecture Hours</th> <th>Lab Hours</th> <th>Contact Hours</th> <th>Credit Hours</th> </tr> </thead> </table>	Subject Code	Course Number	Course Title	Lecture Hours	Lab Hours	Contact Hours	Credit Hours
Subject Code	Course Number	Course Title	Lecture Hours	Lab Hours	Contact Hours	Credit Hours	
See Attached Industrial Electrical Technology -- AAS Proposal							

**SIGNATURES:**

  
 \_\_\_\_\_  
 College Chief Academic Officer

  
 \_\_\_\_\_  
 College Chief Executive Officer

11-9-17  
 Date

11-10-17  
 Date



**Current Industrial Electrician (TD) – 460302**  
**5 Star Rating**  
**Certificate Options**

Course No.	Course Title	Lecture	Lab	Total CR/Contact
INST 1010	Introduction to Instrumentation	2	1	3/60
INST 1111	Fundamentals of Electricity/Electronics	3	1	4/75
ELEC 1122	Residential Wiring	1	2	3/75
	<b>TCA ELECTRICIAN HELPER</b>			<b>10/210</b>
ELEC 1220	Introduction to Motor Controls	3	1	4/75
ELEC 1222	Residential Wiring Installation	1	3	4/60
ELEC 2460	Technical Math for Electricians	1	1	2/60
INST 1112	Fundamentals of Semiconductors/Circuits	3	1	4/75
ITEC 1000	Application Basics	3	0	3/60
	<b>CTS RESIDENTIAL ELECTRICIAN</b>			<b>27/540</b>
<b>Semester 3</b>				
ELEC 1230	National Electric Code	1	2	3/75
ELEC 1430	Blueprint Interpretation	1	2	3/75
ELEC 1312	Generator and Transformer Operations	3	0	3/45
ELEC 2220	Advanced Motor Controls	3	1	4/75
INST 2722	Introduction to Programmable Controllers	3	1	4/75
INST 2812	Advanced PLC's	3	1	4/75
	<b>TD INDUSTRIAL ELECTRICIAN</b>			<b>48/960</b>



**Proposed Industrial Electrical Technology (AAS) – 460302**  
**5 Star Rating**  
**Course Sequence**

Course No.	Course Title	Lecture	Lab	Total CR/Contact
<b>Semester 1</b>				
INST 1111	Fundamentals of Electricity/Electronics	3	1	4/75
ELEC 1122	Residential Wiring	1	2	3/75
INST 1010	Introduction to Instrumentation	2	1	3/60
*ELEC 1000	Electrical Safety	2	1	3/60
				<b>13/270</b>
<b>Semester 2</b>				
INST 1112	Fundamentals of Semiconductors	3	1	4/75
*ELEC 1240	Commercial and Industrial Systems	2	1	3/60
ELEC 1220	Introduction to Motor Controls	3	1	4/75
INST 2722	Introduction to Programmable Controllers	3	1	4/75
				<b>15/285</b>
<b>Semester 3</b>				
ELEC 1230	National Electric Code	1	2	3/75
ELEC 1430	Blueprint Interpretation	1	2	3/75
ELEC 1312	Generator and Transformer Operations	3	0	3/45
ELEC 2220	Advanced Motor Controls	3	1	4/75
INST 2812	Advanced PLC's	3	1	4/75
				<b>17/345</b>
<b>Semester 4</b>				
ENGL 1010	English Composition I	3	0	3/45
MATH 1100	College Algebra	3	0	3/45
	Natural Science Elective	3	0	3/45
	Social Science Elective	3	0	3/45
	American History	3	0	3/45
				<b>15/225</b>

**Total**

**60/1125**

\*Indicates New Course





**Louisiana Board of Regents**

**AA 2.05: REQUEST FOR AUTHORITY TO OFFER A NEW DEGREE PROGRAM\***

-- Including incremental credentials building up to the Degree --

\* Prior to final action by the Board of Regents, no institution may initiate or publicize a new program.\*

**Date:**

Institution: SOWELA Technical Community College	Requested <b>CIP, Designation, Subject/Title:</b> CIP: 460302, Industrial Electrical Technology 5 Star Rating Associate of Applied Science in Industrial Electrical Technology
Contact Person & Contact Info: Ms. Paula Hellums; Vice Chancellor for Academic Affairs <a href="mailto:paula.hellums@sowela.edu">paula.hellums@sowela.edu</a> 337-421-6570	
Date Letter of Intent was approved by Board of Regents: N/A	
Date this Proposal was approved by Governing Board: TBD	
Planned Semester/Term & Year to Begin Offering Program: Summer 2018	

**1. Program Description**

Describe the program concept: (a) purpose and objectives; (b) mode of delivery (on-site/hybrid/on-line). Describe plan for developing and rolling out new courses.

SOWELA currently offers a Technical Diploma (TD) in Industrial Electrician. The College is submitting a request to offer the program as an Associate of Applied Science (AAS) program. The program's Advisory Committee, made up of local industry partners has recommended that SOWELA change the program from a diploma program to a degree program that includes the state minimum mandate of 15 credit hours of general education coursework.

The program will shift from a 48 credit hour diploma program to a 60 credit hour AAS program. A copy of the current program and a draft curriculum for the AAS program is attached at the end of this document.

The mode of delivery will be traditional on-site and hybrid coursework with most general education coursework offered in an online format.

Map out the proposed curriculum, in sequence, identifying any incremental credentials and/or concentrations within the degree. Indicate which courses will be new, including those that would be offered in the new program as electives. Describe any special requirements (e.g., internships, comprehensive exam, thesis, etc.).

The attached curriculum documents outline both the current TD program and the proposed AAS program showing the sequence of required coursework.

The current program includes a single Technical Competency Area (TCA), a Certificate of Technical Studies (CTS) and a TD. The TCA, CTS, and TD will continue to serve as exit points within the AAS.

The program's Advisory Committee recommends that three courses be removed (ELEC 1222 and ELEC 2460, and ITEC 1000) and two new courses be included (ELEC 1000 and ELEC 1240).

There are no special requirements such as internships and comprehensive exams required for program completion.

**2. Need**

Outline how this program is deemed essential for the wellbeing of the state, region, or academy (e.g., how is it relevant, how does it contribute to economic development or relate to current/evolving needs).

The Associate of Applied Science in Industrial Electrical Technology is being created to meet the needs of area industry partners. The revision has been approved by the departmental faculty, program advisory committee, SOWELA's Curriculum Review Committee, and the Executive Leadership Team (ELT). Because the program is currently offered as a Technical Diploma, the transition to an AAS program will have little impact on currently enrolled students.

Describe how the program will further the mission of the institution.

This program aligns with Priority 2.2 of the SOWELA's Strategic Plan: Pursue company-specific partnerships to support workforce programs. Changing the program from a diploma to a degree program is supported by requests from local industry partners.

Identify similar programs in the state and explain why the proposed one is needed: present an argument for a new or additional program of this type and how it will be distinct from existing offerings.

Currently, many programs within the state are either combined with Instrumentation or offered as a diploma program. Offering the existing program as a degree program enhances student's ability to enter the workforce with a higher starting salary.

If approved, will the program result in the termination or phasing out of existing programs? (Is it a replacement?) Explain.

The proposed program will not result in the termination or phasing out of an existing program. The program is currently included in the College's program inventory. It simply provides an option to exit the program with an AAS, although the diploma option will remain as an exit point of the degree program.

If a Graduate program, cite any pertinent studies or national/state trends indicating need for more graduates in the field. Address possibilities for cooperative programs or collaboration with other institution(s).

N/A

### 3. Students

Describe evidence of student interest. Project the source of students (e.g., from existing programs, or the prospects of students being recruited specifically for this program who might not otherwise be attracted to the institution).

The program health index of the current diploma program satisfies all requirements and continued success is anticipated. Students currently enrolled in the program will be the source of enrollment and we anticipate the additional AAS completion point will result in increased enrollment.

Project enrollment and productivity for the first 5 years, and explain/justify the projections.

Projected Enrollment Figures:

Expected implementation is Summer 2018; the enrollment figures Listed below reflects a increase of 5% increase over the next 5 years using the F '17 enrollment of 29 as the base:

Year 1: 31	Year 2: 32	Year 3: 34
Year 4: 35	Year 5: 37	

Provide enrollment/completer data for closely related programs currently offered at the institution.

N/A

What preparation will be necessary for students to enter the program?

Entrance requirements will be consistent with all College policies for admissions into an AAS program.

If a Graduate program, indicate & discuss sources of financial support for students in the program.

N/A

### 4. Faculty

List present faculty members who will be most directly involved in the proposed program: name, present rank; degrees; courses taught; other assignments.

The faculty teaching in the AAS program will be the same faculty currently teaching in the TD program which are:

Anthony Bourgeois, Robert LeBoeuf, Robert Mueller, Brice Palmer, and John Vaussine

Project the number of new faculty members needed to initiate the program for each of the first five years. If it will be absorbed in whole or part by current faculty, explain how this will be done. Explain any special needs.

Current faculty will be used therefore no new faculty will be hired, initially. However, should enrollment grow faster than anticipated, additional faculty will be hired using the Colleges general funds.

Describe involvement of faculty – present and projected – in research, extension, and other activities and the relationship of these activities to teaching load. For proposed new faculty, describe qualifications and/or strengths needed.

Research: N/A;

New Faculty Qualifications: N/A

Involvement of Faculty: Faculty members participate in advisory committees to provide information on the training delivered by the College and to gather recommendations regarding program improvements.

## 5. Library and Other Special Resources

Are present library holdings in related fields adequate to initiate the program? To meet program needs in the first 5 years, what will be needed? Do other institutions have library resources available to faculty & students for the proposed program?

The SOWELA Library supports College curricula through resources in several formats including print, electronic, and audio visual. Along with in-house resources, students and faculty have access to materials through The Louisiana Library Network Consortium - LOUIS.

The SOWELA Library is a member of LOUIS: The Louisiana Library Network consortium. There are 49 member libraries from the five higher education governing systems in the State of Louisiana, which include the Louisiana Association of Independent Colleges and Universities (LAICU), the Louisiana Community and Technical College System (LCTCS), the Louisiana State University System (LSU), the Southern University System (SU), and the University of Louisiana System (ULS).

Through consortia purchasing, SOWELA students and faculty have access to over 60 electronic databases from both on and off-campus. Electronic resources include reference materials, books, and journals. The following databases are useful for the Industrial Electrical Technology program:

- Academic Search Complete
- Business Source Complete
- Films on Demand
- LearningExpress Library
- LexisNexis Academic
- Military & Government Collection
- Occupational Outlook Handbook
- Regional Business News
- SAGE Knowledge
- Science & Technology Collection

Reference, circulation, and interlibrary loan services are provided. Finally, SOWELA patrons with a borrowing card may have direct access to consortium libraries.

Indicate/estimate total expenditure for the last two fiscal years in library acquisitions for fields or departments offering or related to the proposed program.

The estimated cost for library acquisitions specific to the School of Industrial Technology for the prior two fiscal years is \$1,062.67.

Project library expenditures needed for the first 5 years of the program.

Current Library holdings are adequate and therefore no additional expenditures are required.

What additional special resources, other than library holdings, will be needed?

None

## 6. Facilities and Equipment

Describe *existing* facilities (classrooms, labs, offices, etc) available for the program. Describe present utilization of these facilities that are assigned to the sponsoring department.

The School of Industrial Technology will use the existing classroom space at the Main Campus and Morgan Smith Instructional Site for the delivery of instruction.

Describe the need for new facilities (e.g., special buildings, labs, remodeling, construction, equipment), and estimate the cost, proposed sources of funding, and estimated availability for program delivery.

Because the program is currently being offered, existing facilities and equipment are adequate for program completion.

## 7. Administration

In what department, division, school, college, or center/institute will the proposed program be administered? How will the new program affect the present administrative structure of the institution?

The AAS in Industrial Electrical Technology will fall under the School of Industrial Technology and support the mission of the College. This new program will not impact the present administrative structure.

Describe departmental strengths and/or weaknesses and how the proposed program will affect them.

Current faculty members have on-the-job experience with an understanding of the requirements of an industrial electrician and can be called upon to demonstrate key skills pertinent to the trade.

This new program will strengthen the School of Industrial Technology as it will increase the opportunity for graduates to secure employment and enter the workforce with higher starting salaries.

**8. Accreditation**

Describe plan for achieving *program* accreditation, including: name of accrediting agency, basic requirements for accreditation, how the criteria will be achieved, and projected accreditation date.

The College will begin working toward approval of ATMAE programmatic accreditation

If a graduate program, describe the use of consultants in developing the proposal, and include a copy of the consultant's report as an appendix.

N/A

**9. Related Fields**

Indicate subject matter fields at the institution which are related to, or will support, the proposed program; describe the relationship.

The School of Arts & Sciences will support the program by offering the general education coursework required for AAS programs.

**10. Cost & Revenue**

Summarize additional costs to offer the program, e.g., additional funds for research needed to support the program; additional faculty, administrative support, and/or travel; student support. How will the program affect the allocation of departmental funds?

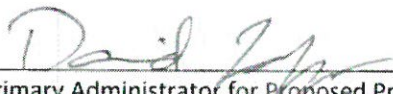
All current resources will be used to support the program. Because the program currently exists as a diploma program, there is no need for additional resources other than the completion of general education coursework.

\*On the separate budget form, estimate new costs and revenues for the projected program for the first four years, indicating need for additional appropriations or investment by the institution.

Outside of revenue from tuition & fees, explain and justify any additional anticipated sources of funds, e.g., grants (in hand, promised, or in competition), institutional funds, etc.

N/A

**CERTIFICATIONS:**

  
\_\_\_\_\_  
Primary Administrator for Proposed Program

11-10-17  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Provost/Chief Academic Officer

11-9-17  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Management Board/System Office

\_\_\_\_\_  
Date



**Current Industrial Electrician (TD) – 460302**  
**5 Star Rating**  
**Certificate Options**

Course No.	Course Title	Lecture	Lab	Total CR/Contact
INST 1010	Introduction to Instrumentation	2	1	3/60
INST 1111	Fundamentals of Electricity/Electronics	3	1	4/75
ELEC 1122	Residential Wiring	1	2	3/75
	<b>TCA ELECTRICIAN HELPER</b>			<b>10/210</b>
ELEC 1220	Introduction to Motor Controls	3	1	4/75
ELEC 1222	Residential Wiring Installation	1	3	4/60
ELEC 2460	Technical Math for Electricians	1	1	2/60
INST 1112	Fundamentals of Semiconductors/Circuits	3	1	4/75
ITEC 1000	Application Basics	3	0	3/60
	<b>CTS RESIDENTIAL ELECTRICIAN</b>			<b>27/540</b>
<b>Semester 3</b>				
ELEC 1230	National Electric Code	1	2	3/75
ELEC 1430	Blueprint Interpretation	1	2	3/75
ELEC 1312	Generator and Transformer Operations	3	0	3/45
ELEC 2220	Advanced Motor Controls	3	1	4/75
INST 2722	Introduction to Programmable Controllers	3	1	4/75
INST 2812	Advanced PLC's	3	1	4/75
	<b>TD INDUSTRIAL ELECTRICIAN</b>			<b>48/960</b>



**Proposed Industrial Electrical Technology (AAS) – 460302**  
**5 Star Rating**  
**Course Sequence**

Course No.	Course Title	Lecture	Lab	Total CR/Contact
<b>Semester 1</b>				
INST 1111	Fundamentals of Electricity/Electronics	3	1	4/75
ELEC 1122	Residential Wiring	1	2	3/75
INST 1010	Introduction to Instrumentation	2	1	3/60
*ELEC 1000	Electrical Safety	2	1	3/60
				<b>13/270</b>
<b>Semester 2</b>				
INST 1112	Fundamentals of Semiconductors	3	1	4/75
*ELEC 1240	Commercial and Industrial Systems	2	1	3/60
ELEC 1220	Introduction to Motor Controls	3	1	4/75
INST 2722	Introduction to Programmable Controllers	3	1	4/75
				<b>15/285</b>
<b>Semester 3</b>				
ELEC 1230	National Electric Code	1	2	3/75
ELEC 1430	Blueprint Interpretation	1	2	3/75
ELEC 1312	Generator and Transformer Operations	3	0	3/45
ELEC 2220	Advanced Motor Controls	3	1	4/75
INST 2812	Advanced PLC's	3	1	4/75
				<b>17/345</b>
<b>Semester 4</b>				
ENGL 1010	English Composition I	3	0	3/45
MATH 1100	College Algebra	3	0	3/45
	Natural Science Elective	3	0	3/45
	Social Science Elective	3	0	3/45
	American History	3	0	3/45
				<b>15/225</b>

**Total**

**60/1125**

\*Indicates New Course



**Proposed Industrial Electrical Technology (AAS) – 460302**  
**5 Star Rating**  
**Certificate Options**

Course No.	Course Title	Lecture	Lab	Total CR/Contact
INST 1111	Fundamentals of Electricity/Electronics	3	1	4/75
ELEC 1122	Residential Wiring	1	2	3/75
INST 1010	Introduction to Instrumentation	2	1	3/60
*ELEC 1000	Electrical Safety	2	1	3/60
	<b>TCA – ELECTRICIAN HELPER</b>	<b>8</b>	<b>5</b>	<b>13/270</b>
INST 1112	Fundamentals of Semiconductors	3	1	4/75
*ELEC 1240	Commercial and Industrial Systems	2	1	3/60
ELEC 1220	Introduction to Motor Controls	3	1	4/75
INST 2722	Introduction to Programmable Controllers	3	1	4/75
	<b>CTS – RESIDENTIAL ELECTRICIAN</b>			<b>28/555</b>
ELEC 1230	National Electric Code	1	2	3/75
ELEC 1430	Blueprint Interpretation	1	2	3/75
ELEC 1312	Generator and Transformer Operations	3	0	3/45
ELEC 2220	Advanced Motor Controls	3	1	4/75
INST 2812	Advanced PLC's	3	1	4/75
	<b>TD – INDUSTRIAL ELECTRICAL TECHNOLOGY</b>			<b>45/900</b>
<b>Semester 4</b>				
ENGL 1010	English Composition I	3	0	3/45
MATH 1100	College Algebra	3	0	3/45
	Natural Science Elective	3	0	3/45
	Social Science Elective	3	0	3/45
	American History	3	0	3/45

**Total**

**60/1125**

\*Indicates New Course



**Faculty Roster Form  
Qualifications of Full-Time and Part-Time Faculty**

Name of Institution: SOWELA Technical Community College  
 Name of Primary Department, Academic Program, or Discipline: School of Industrial Technology – Industrial Electrical Technology  
 Academic Term(s) Included: Fall 2017 Date Form Completed: September 12, 2017

1 NAME (F,P)	2 COURSES TAUGHT Including Term, Course Number & Title, Credit Hours (D, N, T)	3 ACADEMIC DEGREES & COURSEWORK Relevant to Courses Taught, Including Institution & Major. List specific graduate coursework, if needed	4 OTHER QUALIFICATIONS & COMMENTS Related to Courses Taught
<b>Bourgeois, Anthony (P)</b> <b>Rank: Instructor</b>	<b>Fall 2017</b> INST 1010 Introduction to Industrial Instrumentation. 3 (N)	<b>B.S. Engineering Technology</b> McNeese State University  <b>AAS Industrial Instrumentation</b> SOWELA Technical Community College  <b>TD Industrial Electrician</b> SOWELA Technical Community College  <b>A.A.S. Occupational Education</b> SOWELA Technical Community College	<b>Work Experience:</b> <ul style="list-style-type: none"> <li>• STCC Instrumentation Instructor (2017-present)</li> <li>• PPG Industries, E&amp;I Engineer (4 years)</li> <li>• Levingston Group LLC. E&amp;I Engineer (2 years)</li> </ul>
<b>LeBoeuf, Robert (F)</b> <b>Rank: Instructor</b>	<b>Fall 2017</b> ELEC 1230 National Electric Code. 3 (N) ELEC 2220 Advanced Motor Controls. 4 (N)		<b>Certifications:</b> <ul style="list-style-type: none"> <li>• NOCTI Certified Electrical Instructor</li> <li>• National Center for Construction Education and Research (NCCER) Certified Electrical Instructor</li> </ul> <b>Work Experience:</b> <ul style="list-style-type: none"> <li>• STCC Electrical Instructor (2001 - present)</li> <li>• Exxon-Mobile Exploration: Electrician</li> <li>• Responsible for the maintenance and repair of all electrical systems associated with an offshore platform to include generators, transformers, motors and controls, lighting, plc s, ups units and other standby power systems. (1990-1999)</li> <li>• SECO: Electrician (1986-1990)</li> <li>• PPG- Electrical Apprentice Program- Journeyman Level (1968-1971)</li> <li>• Army Electrical Instructor (1966-1968)</li> </ul>

1	2	3	4
NAME (F,P)	COURSES TAUGHT Including Term, Course Number & Title, Credit Hours (D, N, T)	ACADEMIC DEGREES & COURSEWORK Relevant to Courses Taught, Including Institution & Major. List specific graduate coursework, if needed	OTHER QUALIFICATIONS & COMMENTS Related to Courses Taught
Mueller, Ronald (F) Rank: Instructor	Fall 2017 ELEC 1220 Intro to Motor Controls, 4 (N) ELEC 1230 National Electric Code, 3 (N)		<p><b>Work Experience:</b></p> <ul style="list-style-type: none"> <li>STCC Electrical Instructor (2004 - present)</li> <li>PPG Industries, Inc.: Electrician/ Electrical Supervisor. (1975-2003)</li> </ul> <p>Responsible for maintaining, trouble-shooting, repair and or replacement of all electrical equipment in the facility.</p> <ul style="list-style-type: none"> <li>Alcoa Aluminum: completed a 4-year Industrial Electrical Apprenticeship program. (1969-1975)</li> <li>U.S. Navy: completed a 32-week Electronics Technician School (1965-1969)</li> </ul>
Palmer, Brice William (P) Rank: Instructor	Fall 2017 ELEC 1430 Blueprint Interpretation, 3 (N)	<p><b>B.A. Design</b> University of Louisiana at Lafayette  (formerly University of Southwestern Louisiana)</p>	<p><b>Certification:</b></p> <ul style="list-style-type: none"> <li>V.T.I.E. Certification University of Louisiana at Lafayette</li> </ul> <p>Graduate work-L.S.U. Life time teaching certificate (#P-725) from the Louisiana Dept of Education in both drafting and graphic arts</p> <p><b>Work Experience:</b></p> <ul style="list-style-type: none"> <li>45 years work experience in the drafting field as a drafter, designer, and consultant in the areas of architecture, marine drafting, petroleum drafting, and machine drafting/design.</li> <li>35 years teaching experience</li> </ul>
Vaussine, John (F) Rank: Instructor	Fall 2017 ELEC 1122 Residential Wiring, 3 (N) ELEC 1312 Generator & Transformer Operations, 3 (N) INST 1010 Introduction to Industrial Instrumentation, 3 (N) INST 1111 Fundamentals of Electricity/Electronics, 4 (N)	<p><b>A.A.S. Industrial Electronics</b> LTC T. H. Harris</p>	<p><b>Work Experience:</b></p> <ul style="list-style-type: none"> <li>STCC Electrical Instructor (2015-present)</li> <li>STCC NCCER Instructor (.5 year)</li> <li>ABC School: Industrial Electrical Teacher (2014-present)</li> <li>Dashiell Corp., High-Voltage Tech (1 year)</li> <li>Ralphs Electronics, Sales (1 year)</li> <li>Kahn, Wntz, Myklaf, Electronic Engineer (2 years)</li> <li>Baker Hughes Production Quest, Electronic Technician (1.5 years)</li> </ul>

