



LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM

**Changing Lives,
Creating Futures**

Monty Sullivan
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TO: Dr. Monty Sullivan
LCTCS President

THROUGH: Dr. Wendi Palermo ^{WP}
Chief Education and Training Officer

FROM: William Tulak ^{WT}
Director of Institutional Effectiveness

DATE: November 28, 2023

SUBJECT: Program Requests at Northwest Louisiana Technical Community College

APPROVED
 12/13/23
LCTCS BOARD OF SUPERVISORS

FOR BOARD ACTION

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

Program Additions

1. Technical Diploma (TD) in Plumbing (CIP 46.0503) - **4 STARS**
 - a. Certificate of Technical Studies (CTS) in Plumber Helper Level 2 (CIP 46.0503) - **4 STARS**
 - b. Certificate of Technical Studies (CTS) in Plumber Helper Level 1 (CIP 46.0503) - **4 STARS**
 - c. Career and Technical Certificate (CTC) in Construction Laborer (CIP 46.0503) with an IBC in OSHA 10- **4 STARS**

2. Technical Diploma (TD) in Residential, Commercial, & Industrial Electrician (CIP 46.0302) - **4 STARS**
 - a. Certificate of Technical Studies (CTS) in Commercial Electrician Helper (CIP 46.0302) - **4 STARS**
 - b. Certificate of Technical Studies (CTS) in Residential Electrician Helper (CIP 46.0302) - **4 STARS**
 - c. Career and Technical Certificate (CTC) in General Electrician Helper (CIP 46.0302) with an IBC in NCCER Core - **4 STARS**

Background: Northwest Louisiana Technical Community College (NLTCC) is adding a plumbing Technical Diploma program in response to the need for plumbers in the northwest region. NLTCC is adding a Residential, Commercial & Industrial Electrician TD program. The proposed program was designed in coordination with industry partners from within the Shreveport region. The program proposes to teach students basic electrical knowledge as well as offering an in-depth survey of the skills needed in residential, commercial, and industrial environments. This program represents an expansion of the current electrician programs available.

Fiscal Impact: The administrative structure and allocation of departmental funds will be unchanged, unless otherwise noted.

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

Benefits to the System: These requests will allow NLTC to better meet student and workforce needs.



Approved for Recommendation to the Board
Dr. Monty Sullivan, President

12/13/23

Date

Plumbing - 11/30/2023

TYPE OF PROPOSED CHANGE : New Program
PROGRAM NAME : Plumbing

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 : 4 Stars			
Name: Plumbing		Program Delivery Mode: Hybrid	
CIP: 46.0503	Credit Hours: 48.00	Contact Hours: 1500.00	Technical Diploma (T.D.)
Stars : 4 Stars			
Name: Plumber Helper Level I		Program Delivery Mode: Hybrid	
CIP: 46.0503	Credit Hours: 24.00	Contact Hours: 720.00	Certificate of Technical Studies (C.T.S.)
Name: Plumber Helper Level II		Program Delivery Mode: Hybrid	
CIP: 46.0503	Credit Hours: 30.00	Contact Hours: 930.00	Certificate of Technical Studies (C.T.S.)
Stars : 4 Stars			
Name: Construction Laborer		Program Delivery Mode: Hybrid	
CIP: 46.0503	Credit Hours: 12.00	Contact Hours: 360.00	Career and Technical Certificate (C.T.C)

IBC: OSHA 10 Construction	Issuing Body: OSHA	Course Title: Orientation and Safety	Course Prefix: PLMB	Course Number: 1003	Credits Awarded: 3.00	IBC Awarded upon Completion?: Yes
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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.

The NLTC Plumbing program will facilitate entrance into the plumbing career. The program will allow students the opportunity to learn and practice concepts needed to pass the Journeyman license. This will assist the region in providing qualified plumbers for construction, residential and industrial settings. The program has a total of four exit points, each of which provides students with employable skills.

IMPLEMENTATION DATE (Semester and Year)	Summer 2024
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HISTORY OF PRIOR ACTIONS
Provide an overview of changes to this program.

JUSTIFICATION FOR THE PROPOSED CHANGE
Include support such as four-year university agreements, industry demand, advisory board information, etc.

This program is new and was created to serve a need with industry in the Shreveport region. The curriculum and program design was created in coordination with industry members who desire a training provider to help meet the needs of local residential, commercial and industry partners.

SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION:

QUALIFIED FACULTY (Check all that apply)

Use Existing Faculty: No # - Full Time: 1 # - Part Time: 0	Hire Adjunct Faculty: No # - 2	Hire Full-Time Faculty: No # - 0
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ADMINISTRATION and IMPLEMENTATION COSTS

Department :

How will this change affect the administrative structure and/or allocation of departmental funds in terms of:

Faculty :	Facilities :	Library Resources :
Support :	Related Fields :	Other :

MINIMUM CREDENTIALS REQUIRED FOR FACULTY		
Education: Associate Degree	Experience: 4 or more years of experience within the plumbing industry	Certification: Journeyman License

FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS
Department : Division of Industrial Technology
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.
The program is new but will be supervised by the Dean of Industrial Technology. Initial year costs are covered through Rapid Response funding. Tuition and community support are expected to offset future costs.

ANTICIPATED ENROLLMENT:					
Students	Year One	Year Two	Year Three	Year Four	Year Five
DAY	20	30	40	50	60
EVENING	12	20	28	36	45
DISTANCE EDUCATION	0	0	0	0	0
Describe Process for Attaining & Estimating Enrollment:	Enrollment estimates have been achieved through the work with industry partners who have open positions that cannot be filled. These open positions can be hired to work (On The Job Training) while the student is enrolled in courses.				

PROGRAM ACCREDITATION:	
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.)

PROGRAM CURRICULUM

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: CTC CONSTRUCTION LABORER					Credit Hours: 12.00		
PLMB	1003	Orientation and Safety	2.00	2.00	90.00	3.00	0.00
PLMB	1013	Tools and Mechanics	2.00	2.00	90.00	3.00	0.00
PLMB	1033	Water and Waste	2.00	2.00	90.00	3.00	0.00
PLMB	1053	Methods and Materials	2.00	2.00	90.00	3.00	0.00
Program, Degree or Concentration: CTS PLUMBER HELPER LEVEL 1					Credit Hours: 24.00		
PLMB	1073	Math for the Plumbing Career	2.00	2.00	90.00	3.00	0.00
PLMB	1093	Fixtures, Faucets, and Devices	2.00	2.00	90.00	3.00	0.00
PLMB	1103	Valves and Water Heaters	2.00	2.00	90.00	3.00	0.00
PLMB	1113	Interpreting Blueprints	2.00	2.00	90.00	3.00	0.00
Program, Degree or Concentration: CTS PLUMBER HELPER LEVEL 2					Credit Hours: 30.00		
PLMB	2011	Communication & Work Ethics	1.00	1.00	45.00	1.00	0.00
PLMB	2033	Piping Techniques	2.00	2.00	90.00	3.00	0.00
PLMB	2052	Applications of Plumbing Math	1.00	2.00	75.00	2.00	0.00
Program, Degree or Concentration: TECHNICAL DIPLOMA PLUMBING					Credit Hours: 0.00		
PLMB	2073	Pipefitting	2.00	2.00	90.00	3.00	0.00
PLMB	2093	Piping & Sizing	2.00	2.00	90.00	3.00	0.00
PLMB	2113	Drainage and Cross Connection	2.00	2.00	90.00	3.00	0.00
PLMB	2133	Building Drains	2.00	2.00	90.00	3.00	0.00
PLMB	2153	Venting, Pumps, & Traps	2.00	2.00	90.00	3.00	0.00
PLMB	2172	Safety Applications	1.00	2.00	75.00	2.00	0.00
PLMB	2191	Drawings and Exploded Views	1.00	1.00	45.00	1.00	0.00

BENEFITS TO THE SYSTEM

Discuss how this change will benefit your students, your community, and the LCTCS.

The plumbing career in a metropolitan area is an essential service to the community. Proper plumbing stops the transmission of disease, infections and poisoning. Adequate education is needed to continue to produce an appropriate number of entering employees. This program will meet the needs through an engaging, hands-on curriculum designed to create a knowledgeable, efficient worker.

KEYWORDS

Plumbing, Construction,



Plumbing (46.0503)

Program Description & Curriculum

A program that prepares individuals to practice as licensed plumbers by applying technical knowledge and skills to lay out, assemble, install, and maintain piping fixtures and systems for steam, natural gas, oil, hot water, heating, cooling, drainage, lubricating, sprinkling, and industrial processing systems in home and business environments. Includes instruction in source determination, water distribution, wastewater removal, pressure adjustment, basic physics, technical mathematics, blueprint reading, pipe installation, pumps, welding and soldering, plumbing inspection, and applicable codes and standards.

Degrees/Certificates

Technical Diploma (TD)

Certificate of Technical Studies (CTS)

Certificate of Technical Competency (CTC)

Course #	Course Title	Lecture/ Lab Hours	Credit Hours	Clock Hours
PLMB 1003	Orientation and Safety	2/2	3	90
PLMB 1013	Tools and Mechanics	2/2	3	90
PLMB 1033	Water and Waste	2/2	3	90
PLMB 1053	Methods and Materials	2/2	3	90
CTC - Construction Laborer			12	360
PLMB 1073	Math for the Plumbing Career	2/2	3	90
PLMB 1093	Fixtures, Faucets, and Devices	2/2	3	90
PLMB 1103	Valves and Water Heaters	2/2	3	90
PLMB 1113	Interpreting Blueprints	2/2	3	90
CTS - Plumber Helper Level I			24	720
PLMB 2011	Communication & Work Ethics	1/1	1	45
PLMB 2033	Piping Techniques	2/2	3	90
PLMB 2052	Applications of Plumbing Math	1/2	2	75
CTS - Plumber Helper Level II			30	930
PLMB 2073	Pipefitting	2/2	3	90
PLMB 2093	Piping & Sizing	2/2	3	90
PLMB 2113	Drainage and Cross Connection	2/2	3	90
PLMB 2133	Building Drains	2/2	3	90
PLMB 2153	Venting, Pumps, & Traps	2/2	3	90
PLMB 2172	Safety Applications	1/2	2	75
PLMB 2191	Drawings and Exploded Views	1/1	1	45
TD – Plumbing			48	1500



Residential, Commercial & Industrial Electrician (46.0302)

Program Description & Curriculum

The purpose of this program is to provide students with an opportunity to obtain the knowledge, skills and hands-on experience in all related fields associated with a career in the electrical profession. The program teaches students the basic electrical knowledge as well as offering an in-depth survey of the skills needed in residential, commercial and electrical environments. Upon completion, the student will be ready to work in any of these areas as they seek their journeyman license.

Degrees/Certificates

Technical Diploma (TD)

Certificate of Technical Studies (CTS)

Certificate of Technical Competency (CTC)

Course #	Course Title	Lecture/ Lab Hours	Credit Hours	Clock Hours
WKSF 1003	Workplace Safety	2/2	3	90
ELEC 1013	Intro to Electrician	2/2	3	90
ELEC 1034	Basic Electrician/Lab	2/3	4	120
ELEC 1053	Electronics	2/2	3	90
CTC-General Electrician Helper			13	390
IMMT 1120	Blueprint Reading	1/1	1	45
ELEC 1212	National Electrical Code	2/1	2	60
ELEC 1214	Residential Wiring/Lab	2/3	4	120
ELEC 1233	Residential Wire Termination	2/2	3	90
SOLR 1003	Solar Fundamentals	2/2	3	90
The Required CTC Courses PLUS these courses comprise the CTS-Residential Electrician Helper			26	795
ELEC 2011	Communication & Work Ethics	1/1	1	45
ELEC 2015	Commercial Wiring /Lab	3/4	5	165
ELEC 2033	Commercial Wire Termination	2/2	3	90
ELEC 2053	Electrical Raceways	2/2	3	90
The Required CTC Courses PLUS these courses comprise the CTS—Commercial Electrician Helper			38	1185
ELEC 2203	Industrial Wiring Theory & Practice	2/2	3	90
ELEC 2233	Generators/Motors & Transformer Operations	2/2	3	90
ELEC 2254	Motor Controls for Electricians	2/3	4	120
ELEC 2272	Capstone	1/2	2	75
TD – Residential, Commercial, & Industrial Electrician			50	1560

11/30/2023

Residential, Commercial & Industrial Electrician - 12/01/2023

TYPE OF PROPOSED CHANGE : New Program
PROGRAM NAME : Residential, Commercial & Industrial Electrician

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 : 4 Stars			
Name: Residential, Commercial & Industrial Electrician		Program Delivery Mode: Hybrid	
CIP: 46.0302	Credit Hours: 50.00	Contact Hours: 1550.00	Technical Diploma (T.D.)
Stars : 4 Stars			
Name: Residential Electrician Helper		Program Delivery Mode: Hybrid	
CIP: 46.0302	Credit Hours: 26.00	Contact Hours: 795.00	Certificate of Technical Studies (C.T.S.)
Name: Commercial Electrician Helper		Program Delivery Mode: Hybrid	
CIP: 43.0602	Credit Hours: 25.00	Contact Hours: 780.00	Certificate of Technical Studies (C.T.S.)
Stars : 4 Stars			
Name: General Electrician Helper		Program Delivery Mode: Hybrid	
CIP: 46.0302	Credit Hours: 13.00	Contact Hours: 390.00	Career and Technical Certificate (C.T.C)

IBC: NCCER Core	Issuing Body: NCCER	Course Title: Workplace Safety	Course Prefix: WKSF	Course Number: 1003	Credits Awarded: 3.00	IBC Awarded upon Completion?: Yes
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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.

The purpose of this program is to provide students with an opportunity to obtain the knowledge, skills and hands-on experience in all related fields associated with a career in the electrical profession. The program teaches students the basic electrical knowledge as well as offering an in-depth survey of the skills needed in residential, commercial and electrical environments. Upon completion, the student will be ready to work in any of these areas as they seek their journeyman license.

IMPLEMENTATION DATE (Semester and Year)	Summer 2024
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HISTORY OF PRIOR ACTIONS
Provide an overview of changes to this program.

JUSTIFICATION FOR THE PROPOSED CHANGE
Include support such as four-year university agreements, industry demand, advisory board information, etc.

Discussions with industry partners have indicated that the proposed program is needed to assist students in preparing for the electrical industry as well as for residential and commercial construction. Additionally, employees are needed for repair and maintenance positions in building management areas within the region. The proposed program was designed in coordination with industry partners from within the Shreveport region.

SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION:

QUALIFIED FACULTY (Check all that apply)		
Use Existing Faculty: No # - Full Time: 2 # - Part Time: 0	Hire Adjunct Faculty: No # - 1	Hire Full-Time Faculty: No # - 0

ADMINISTRATION and IMPLEMENTATION COSTS

Department :

How will this change affect the administrative structure and/or allocation of departmental funds in terms of:

Faculty :	Facilities :	Library Resources :
Support :	Related Fields :	Other :

MINIMUM CREDENTIALS REQUIRED FOR FACULTY		
Education: Associate Degree	Experience: Four or more years in the field to be taught	Certification: Electrician Journeyman

FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS
Department : Division of Manufacturing Technology
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.
This program will utilize current employees as well as an adjunct that will be hired. This program will be funded through tuition and will utilize current equipment.

ANTICIPATED ENROLLMENT:					
Students	Year One	Year Two	Year Three	Year Four	Year Five
DAY	20	30	35	40	45
EVENING	10	15	20	25	30
DISTANCE EDUCATION	0	0	0	0	0
Describe Process for Attaining & Estimating Enrollment:	The process for estimating enrollment is a combination of industry needs, housing management/repair services needs, and current student requests.				

PROGRAM ACCREDITATION:	
Is Program Accreditation, Licensure or Certification Required?	No Accreditation status:
Type/Name of Program Accreditation, Licensure or Certification Required:	

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

PROGRAM CURRICULUM

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: CTC General Electrician Helper					Credit Hours: 13.00		
WKSF	1003	Workplace Safety	2.00	2.00	90.00	3.00	0.00
ELEC	1013	Intro to Electrician	2.00	2.00	90.00	3.00	0.00
ELEC	1034	Basic Electrician/Lab	2.00	3.00	120.00	4.00	0.00
ELEC	1053	Electronics	2.00	2.00	90.00	3.00	0.00
Program, Degree or Concentration: CTS Residential Electrician Helper					Credit Hours: 26.00		
IMMT	1120	Blueprint Reading	1.00	1.00	45.00	1.00	0.00
ELEC	1212	National Electrical Code	2.00	1.00	60.00	2.00	0.00
ELEC	1214	Residential Wiring/Lab	2.00	3.00	120.00	4.00	0.00
ELEC	1233	Residential Wire Termination	2.00	2.00	90.00	3.00	0.00
SOLR	1003	Solar fundamentas	2.00	2.00	90.00	3.00	0.00
Program, Degree or Concentration: CTS Commercial Electrian Helper					Credit Hours: 25.00		
ELEC	2011	Communication & Work Ethics	1.00	1.00	45.00	1.00	0.00
ELEC	2015	Commercial Wiring/Lab	3.00	4.00	165.00	5.00	0.00
ELEC	2033	Commercial Wire Termination	2.00	2.00	90.00	3.00	0.00
ELEC	2053	Electrical Raceways	2.00	2.00	90.00	3.00	0.00
Program, Degree or Concentration: Technical Diploma Residential, Commercial, & Industrial Electrician					Credit Hours: 0.00		
ELEC	2203	Industrial Wiring Theory & Practice	2.00	2.00	90.00	3.00	0.00
ELEC	2233	General/Motors & Transformer Operations	2.00	2.00	90.00	3.00	0.00
ELEC	2254	Motor Controls for Electricians	2.00	3.00	120.00	4.00	0.00
ELEC	2272	Capstone	1.00	2.00	75.00	2.00	0.00

BENEFITS TO THE SYSTEM

Discuss how this change will benefit your students, your community, and the LCTCS.

This program will provide our students with the knowledge, skills and hands-on experience to compete for entry level positions in the electrical industry. In addition, the students will be prepared for a career choice as an Electrician.

KEYWORDS

Electrical, Electrician

Signature: *Wendi Palermo*

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Signature: *William Tulak*

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Consent Agenda - Program Requests at NLTCC

Final Audit Report

2023-12-06

Created:	2023-12-05
By:	Ericka Poole (erickapoole@lctcs.edu)
Status:	Signed
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"Consent Agenda - Program Requests at NLTCC" History

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