



LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM

Changing Lives,
Creating Futures

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Louisiana
Community
& Technical
College System

265 South Foster Drive
Baton Rouge, LA 70806

Phone: 225-922-2800 Fax:
225-922-1185

www.lctcs.edu

TO: Dr. Monty Sullivan
LCTCS President
THROUGH: Dr. Wendi Palermo
Chief Education and Training Officer
FROM: William Tulak
Director of Institutional Effectiveness
DATE: September 13, 2022
SUBJECT: Program request at Bossier Parish Community College

APPROVED

Signature and date 10.12.22
LCTCS BOARD OF SUPERVISORS

FOR BOARD ACTION

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

Program Addition

- 1. Career and Technical Certificate (CTC) in Industrial Technician (CIP 15.0612) with an IBC in Electronics I from Precision Exams - 5 STARS

Background: The CTC in Industrial Technician will provide students an opportunity to acquire knowledge in the core industrial concepts of electricity, fluid power, print reading and measurements, as well as safety considerations associated with each concept. Embedded in the program is the Electronics I certification developed by Precision Exams. The CTC certificate will fully stack into the existing CTS in Instrumentation and Electronics, CTS in Engineering Graphics, and the AAS degrees in Automation and Controls, Engineering Graphics, and Industrial Maintenance. The CTC will have a total of 10 credit hours and 192 contact hours.

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 Bossier Parish Community College to better meet student and workforce needs.

Signature of Monty Sullivan

October 12, 2022

Approved for Recommendation to the Board
Dr. Monty Sullivan

Date

Industrial Technician - 09/12/2022

TYPE OF PROPOSED CHANGE : New Program
PROGRAM NAME : Industrial Technician

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: Electronics I		Program Delivery Mode: Standard	
CIP: 15.0612	Credit Hours: 10.00	Contact Hours: 192.00	Career and Technical Certificate (C.T.C)

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.
<p>a) In order to meet industry demand for qualified individuals with an Industrial Technician skillset, BPCC proposes to create a new academic program, CTC in Industrial Technician. The development of this short-term credential allows students an opportunity to acquire knowledge in the core industrial concepts of electricity, fluid power, print reading and measurements, as well as the crucial safety considerations associated with each concept. Embedded in the program is the Electronics I certification developed with industry support by Precision Exams. The CTC degree will fully stack into the existing CTS degrees in Instrumentation and Electronics, and Engineering Graphics. It will further stack with existing AAS degrees Automation and Controls, Engineering Graphics, and Industrial Maintenance. The CTC degree will have a total of 10 credit hours and 192 contact hours and will be offered through the Division of Science, Technology, Engineering, and Mathematics. Students can fully obtain the CTC degree with a mixture of face-to-face and hybrid courses. The development of the new CTC degree will provide an additional learning pathway before branching out into Industrial Engineering Technology Concentrations or entering the workforce. This will also align BPCC with the needs of its Industry Partners for entry level training for students entering industrial and manufacturing jobs.</p> <p>b) N/A – new program c) N/A – new program d) N/A – new program</p>

IMPLEMENTATION DATE (Semester and Year)	Fall 2022	Spring 2023
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HISTORY OF PRIOR ACTIONS**Provide an overview of changes to this program.**

BPCC IET faculty and staff met in person with industry partners including Prolec GE, Ternium, Frymaster, and Benteler Steel to address methods to rapidly address their labor shortages on March 15, 2022. While Apprenticeship efforts were the primary focus of the meeting, a new Industrial Technician CTC was discussed.

BPCC IET faculty and staff held a virtual advisory board meeting with industry and academic partners on April 18, 2022 and discussed the creation of a CTC for Industrial Technicians. The advisory board unanimously approved the proposed Industrial Technician CTC program (100% - 8 out of 8 industry partners).

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

Industry partners have inquired about a one to two semester training program for new employees entering the industrial workforce. There is a significant shortage of skilled work ready employees. While the current programs in Industrial Engineering Technology produce a quality technician, the shortest current programs are CTS degrees in Instrumentation and Electronics, and Engineering Graphics that frequently take three semesters to complete. Adding a one semester Industrial Technician CTC provides students with a common entry point from which they can branch out into Automation and Controls, Engineering Graphics, Industrial Maintenance, or directly enter the workforce.

Memorandum of Understanding (MOU) for above AAS degrees are established with the University of Texas in Tyler, NSU, and Louisiana Tech.

BPCC IET faculty and staff held a virtual advisory board meeting with industry and academic partners in Spring 2022 and discussed the creation of a CTC for Industrial Technicians. The advisory board unanimously approved the proposed Industrial Technician CTC program (100% - 8 out of 8 industry partners).

SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION: Main Campus**QUALIFIED FACULTY (Check all that apply)****Use Existing Faculty:** Yes

- Full Time: 2

- Part Time: 0

Hire Adjunct Faculty: No

- 0

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: - Associates degree in electrical engineering, industrial technology, or engineering - N/A

Experience: - 5 years of work experience in the subject area - 3 years of work experience in the subject area with industry-based certifications

Certification: - N/A - industry-based certifications

FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS

Department : Science, Technology, Engineering, and Mathematics

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.

No new resources needed.

ANTICIPATED ENROLLMENT:

Students	Year One	Year Two	Year Three	Year Four	Year Five
DAY					
EVENING	5	7	9	10	10
DISTANCE EDUCATION					
Describe Process for Attaining & Estimating Enrollment:	Incremental growth over the first four years as a common initial pathway for all Industrial Engineering Technology Students.				

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: see attached curriculum					Credit Hours: 10.00		

BENEFITS TO THE SYSTEM
Discuss how this change will benefit your students, your community, and the LCTCS.
This CTC is designed to be a one semester certificate program that provides a basic understanding of core industrial concepts. The student will develop the hands-on skills and safety techniques to succeed in a high-demand, high-paying industrial job. The CTC also creates a logical investment point for employers seeking skilled employees.

KEYWORDS
Industrial Technician, Technician, BPCC, TEM, Electronics, Engineering, Manufacturing

Signature: *William Tulak*

Email: williamtulak@lctcs.edu

Signature: *Wendi Palermo*

Email: wendipalermo@lctcs.edu











G.2.BPCC Consent Items for October 2022 Meeting

Final Audit Report

2022-10-04

Created:	2022-10-04
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-  Document created by Sara Kleinpeter (sarakleinpeter1@lctcs.edu)
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