INSTRUCTIONAL COMPREHENSIVE PROGRAM PLANNING AND REVIEW (CPPR) FOR 2023

Only to be completed by those programs scheduled for the year according to the institutional comprehensive planning cycle for instructional programs (i.e., every four years for CTE programs and five years for all other instructional programs), which is produced by the Office of Instruction. Faculty should meet with their dean prior to beginning this process. Training is available to support faculty completing this work.

Cluster: #4 **Area of Study:** Engineering & Tech **Program:** Construction Technology

Current Academic Year: 2022-2023

Last Academic Year CPPR Completed: 2019 **Current Date:** 02/14/23

NARRATIVE: INSTRUCTIONAL CPPR

Please use the following narrative outline:

I. Describe how this program review was conducted, including how all program members were involved in the planning process.

   a. The Construction Technology Program Review is conducted by the part time lead instructor (coordinator), Eric Finlayson. This instructor consulted with industry professionals, including department part time faculty, and the most recent advisory committee.

II. GENERAL PROGRAM INFORMATION

Program Mission: To provide training to those who wish to enter into the workforce, for career advancement, or self enrichment.

A. Please highlight any changes and improvements since the last Comprehensive Program Review. Be sure to specifically indicate those changes that have been made in the program in order to address equity gaps.

   a. The Construction Technology program was changed such that the skills classes were shortened from 3 units to one unit and offered on Saturdays. These seven classes (CTCH 220, 222, 224, 226, 228, 230, 232) are offered such that a student can complete them in one year. These classes were first introduced the Fall 2020 semester.

B. List all current full-time and part-time faculty in the program.

a. There are no full time faculty in the Construction Tech. department:

i. Eric Finlayson (coordinator) – part time

ii. Michael Pereira – part time

iii. William Morris – part time

III. PROGRAM SUPPORT OF DISTRICT'S MISSION STATEMENT, INSTITUTIONAL GOALS, INSTITUTIONAL OBJECTIVES, AND/OR INSTITUTIONAL LEARNING OUTCOMES

A. Identify how your program addresses or helps to achieve the District's Mission Statement.

B. Identify how your program addresses or helps to achieve the District's Institutional Goals and Objectives, and/or operational planning initiatives.

Cuesta College is an inclusive institution that inspires a diverse student population to achieve their educational goals.

We effectively support students in their efforts to improve foundational skills, earn certificates or associate degrees, transfer to four-year institutions, and advance in the workforce.

Through innovative and challenging learning opportunities, Cuesta College enhances lives by promoting cultural, intellectual, personal, and professional growth. We prepare students to become engaged citizens in our increasingly complex communities and world.

Faculty are engaged in community outreach through varies means such as: Softec, Farmer's Market, high school presentations, Dual Enrollment, and SkillsUSA.

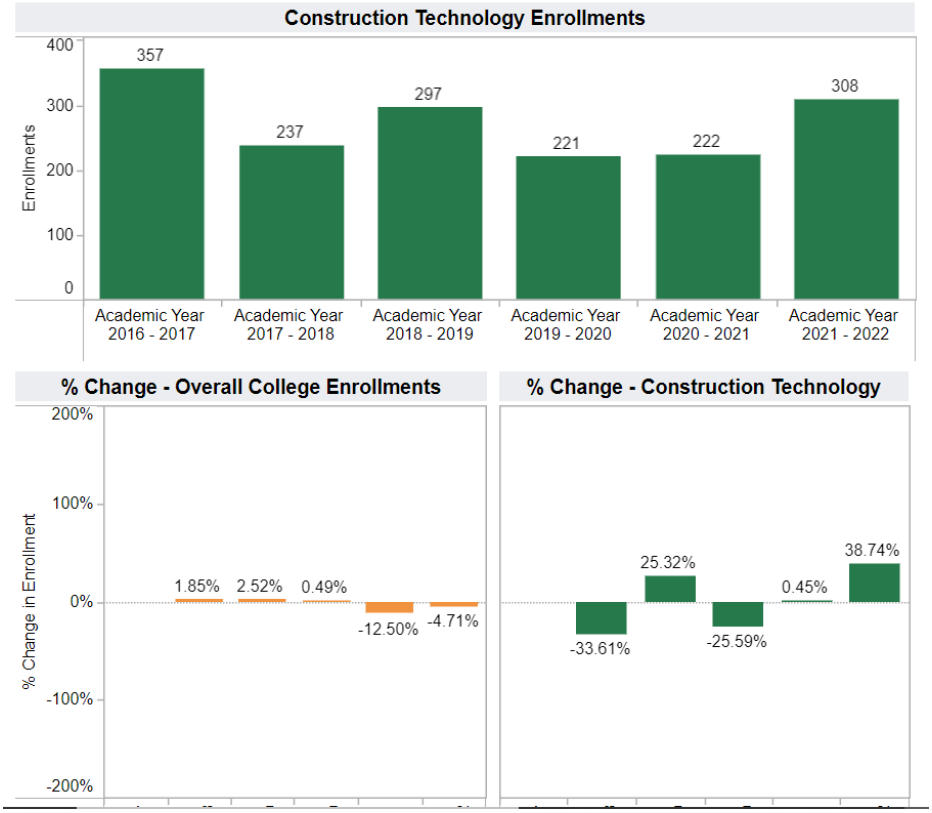
C. Identify how your program helps students achieve Institutional Learning Outcomes.

Construction Technology students are taught the professional skills necessary for successful employment. Classes are taught by practicing professionals. The curriculum requies students to master hands-on skills as well as project management skills in CTCH 163/260.

IV. PROGRAM DATA ANALYSIS AND PROGRAM-SPECIFIC MEASUREMENTS (Where applicable the success metrics are aligned with the Student Success Metrics/SCFF).

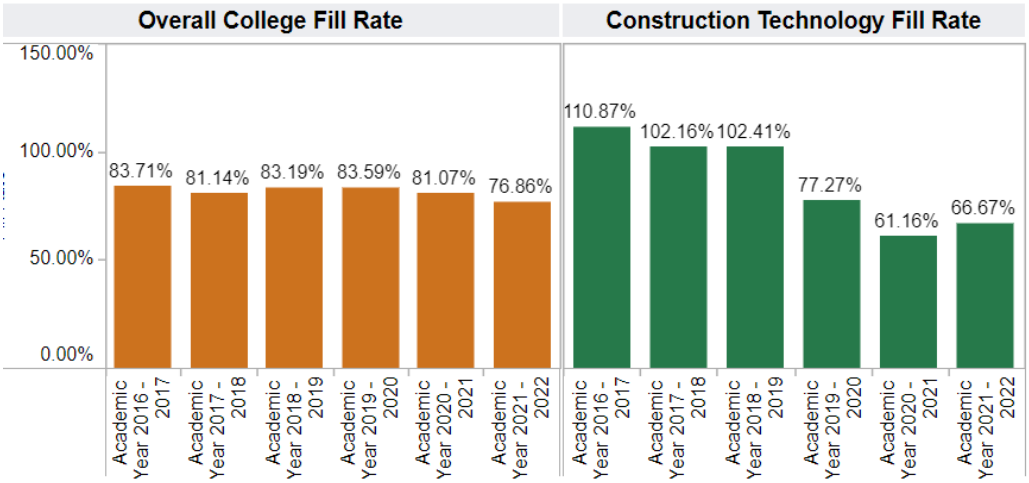
The data components are hyperlinked below.

A. General Enrollment (Insert Aggregated Data Chart)



The program for 2021-2022 rebounded back to pre-Covid enrollments once Covid restrictions were lifted. The enrollments include Dual Enrollment (DE) for CTCH101-Survey of Residential Construction. The program change put into effect in 2018-2019 increased enrollments that year. It appears from 2019 and 2021-22 enrollments that our program change has been effective - reducing skills classes to one unit format occurring on Saturdays instead of 3 unit classes occurring during the week

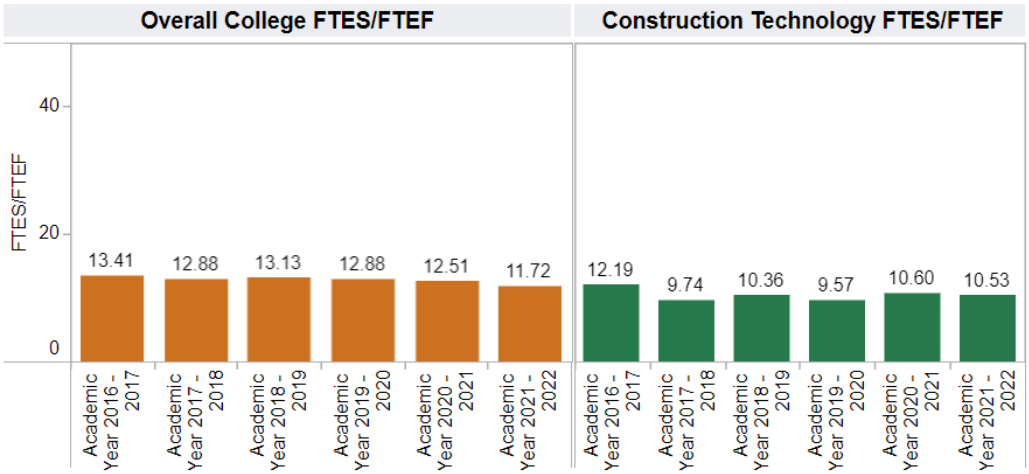
B. General Student Demand (Fill Rate) (Insert Aggregated Data Chart)
Insert the data chart and explain observed differences between the program and the college.



The fill rate lowered in 2019-20 year due to change in program (as stated previously). With the change to Saturdays for skills classes the maximum number of enrolled students per class increased to 20, up from 12 (according to my memory). Also, CTCH101 was cancelled by the Grizzly Academy during the pandemic, classes which generally were at 100% capacity of 2 classes of 50 students each every semester.

C. General Efficiency (FTES/FTEF) (Insert Aggregated Data Chart)

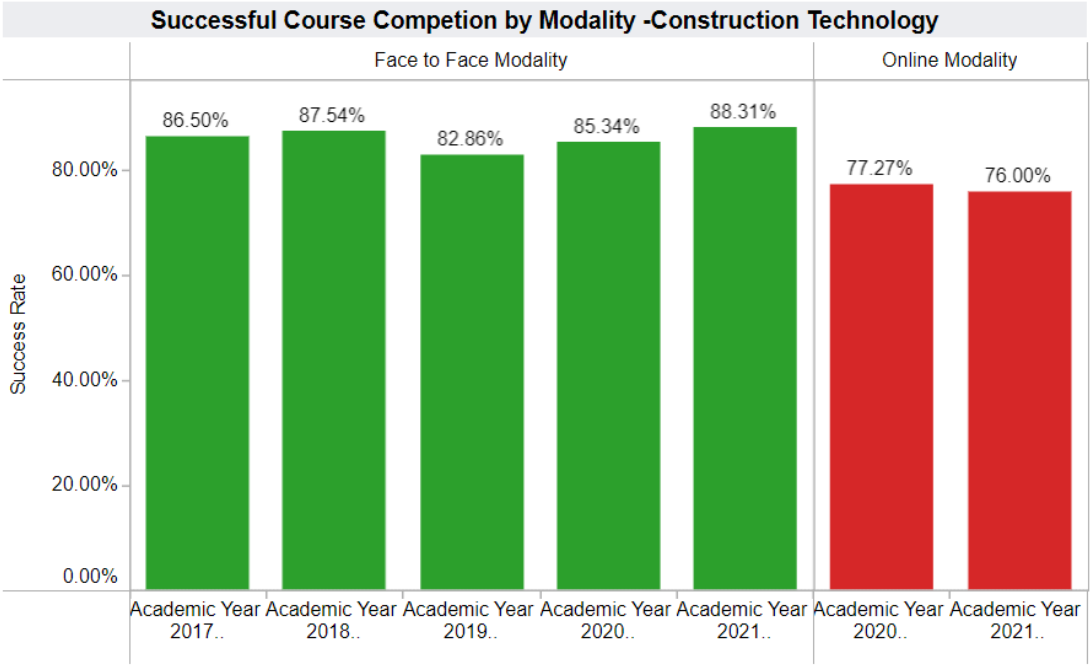
Insert the data chart and explain observed differences between the program and the college.



FTES/FTEF: The ratio of total FTES to Full-Time Equivalent Faculty
(SXD4 Total-Hours/17.5)/XE03 FACULTY-ASSIGNMENT-FTE)

D. Student Success—Course Completion by Modality (Insert Data Chart)

Insert the data chart and explain observed differences between the program and the college.



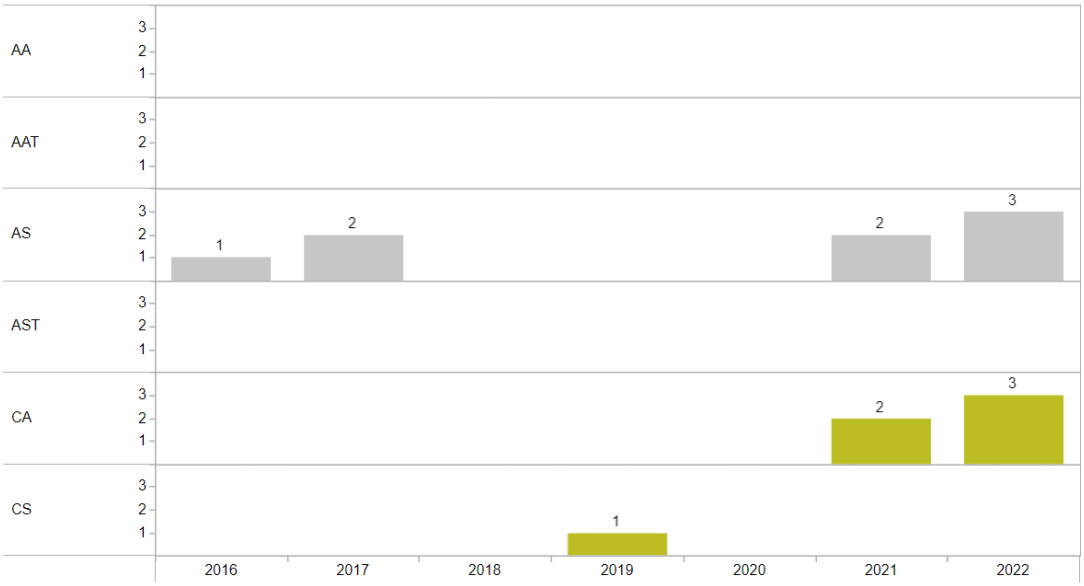
Successful Course Competion by Modality Table - Construction Technology

		Academic Year 2017 - 2018	Academic Year 2018 - 2019	Academic Year 2019 - 2020*	Academic Year 2020 - 2021	Academic Year 2021 - 2022
Face to Face Modality	Department Success Rate	86.50%	87.54%	82.86%	85.34%	88.31%
	Total Department Enrollments	237.0	297.0	239.0	194.0	315.0
Online Modality	Department Success Rate				77.27%	76.00%
	Total Department Enrollments				93.0	25.0

Click here to enter text.

E. Degrees and Certificates Awarded (Insert Data Chart)

Insert the data chart and explain observed differences between the program and the college.

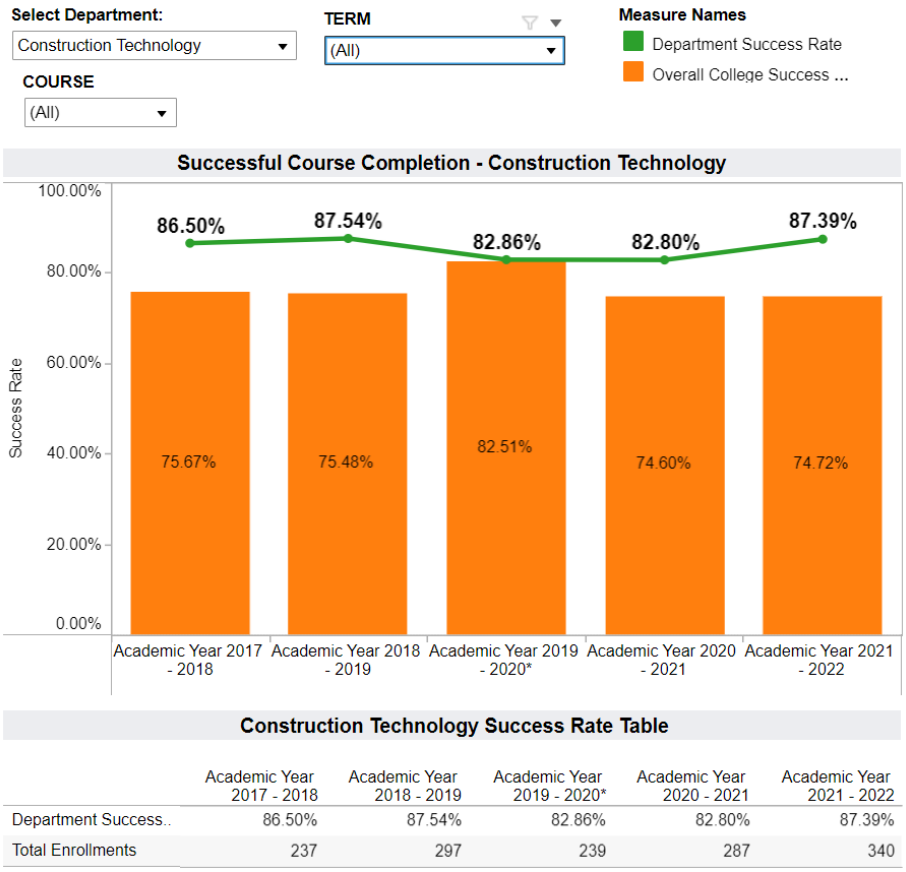


Program Awards Table

Award Type	Award	2016	2017	2018	2019	2020	2021	2022
AS	Construction Technology (AS)	1	2				2	3
	Total	1	2				2	3
CA	Construction Technology (CA)						2	3
	Total						2	3
CS	Water Distribution Sys (CS)				1			

Since implementing the new program change there has been a slight increase in degrees and certificates awarded to students. Construction Tech skills classes are comprised of students seeking a construction management BS degree, home owners seeking skills to improve/repair their homes, and people who want to improve their construction knowledge to advance their careers both as trades-people and as non-trade people working for construction companies (i.e. sales, management, inspectors, etc.).

F. General Student Success – Course Completion (Insert Aggregated Data Chart)
Insert the data chart and explain observed differences between the program

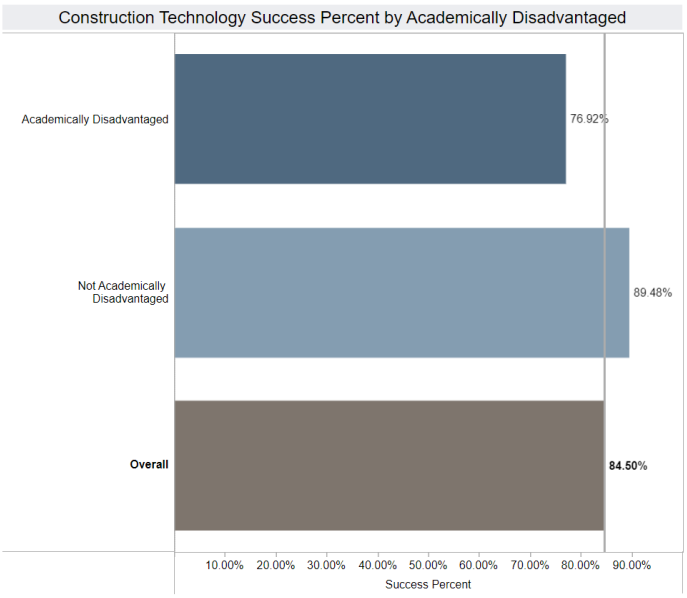


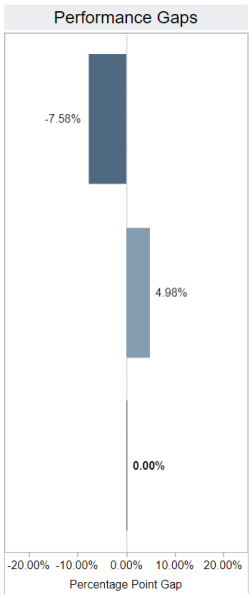
Construction Technology Success Rate Table

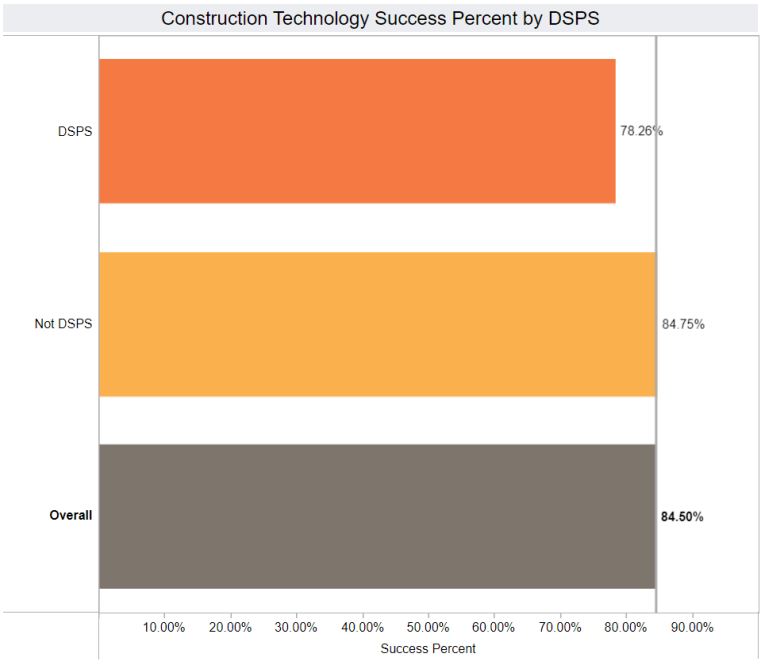
	Academic Year 2017 - 2018	Academic Year 2018 - 2019	Academic Year 2019 - 2020*	Academic Year 2020 - 2021	Academic Year 2021 - 2022
Department Success..	86.50%	87.54%	82.86%	82.80%	87.39%
Total Enrollments	237	297	239	287	340

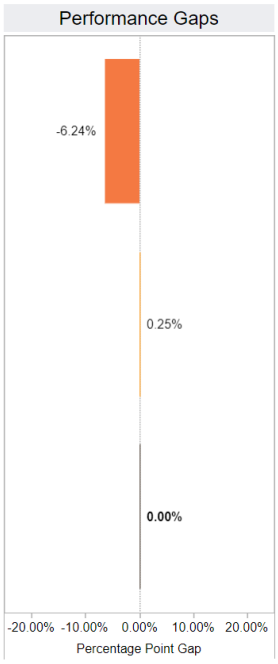
Construction Tech students are generally older students seeking to advance their construction knowledge and have more personal agency to complete their courses.

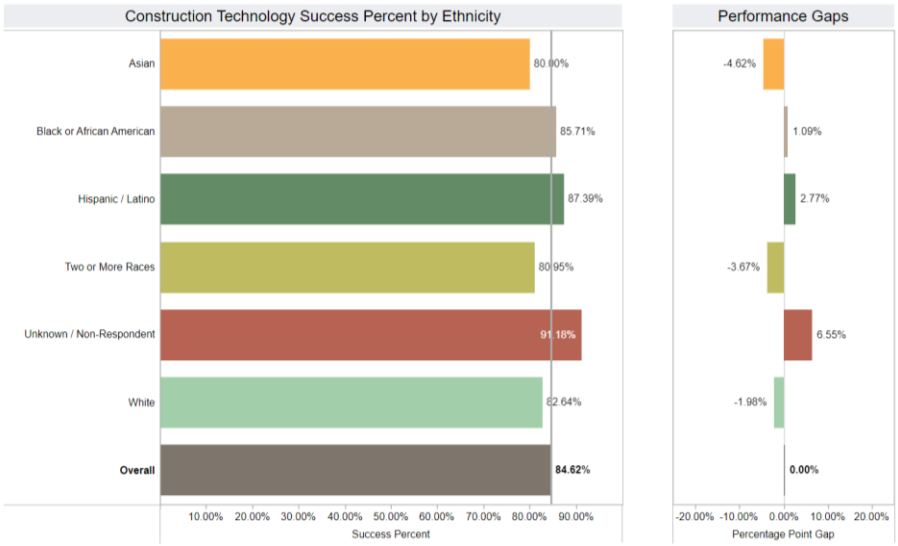
G. Review the Disaggregated Student Success charts; include any charts that you will reference. Describe any departmental or pedagogical outcomes that have occurred as a result of programmatic discussion regarding the data presented.


Construction Technology Success Percent by Academically Disadvantaged
Academically Disadvantaged
Not Academically Disadvantaged
Overall
76.92%
89.48%
84.50%
10.00% 20.00% 30.00% 40.00% 50.00% 60.00% 70.00% 80.00% 90.00%
Success Percent


Performance Gaps
-7.58%
4.98%
0.00%
-20.00% -10.00% 0.00% 10.00% 20.00%
Percentage Point Gap


Construction Technology Success Percent by DSPS
DSPS
Not DSPS
Overall
78.26%
84.75%
84.50%
10.00% 20.00% 30.00% 40.00% 50.00% 60.00% 70.00% 80.00% 90.00%
Success Percent


Performance Gaps
-6.24%
0.25%
0.00%
-20.00% -10.00% 0.00% 10.00% 20.00%
Percentage Point Gap



The following are some questions you might want to consider:

- What strategies have you implemented to address equity gaps in the classroom?
- What type of professional development opportunities are your program faculty participating in to address equity in the classroom?
- What resources might you need to minimize equity gaps?

The Construction Department offers skills classes on Saturdays which enable anyone to take our classes. Construction Department faculty enroll in offered Flex trainings to improve their understanding and implementation of equity.

Other Relevant Program Data (optional)

Provide and comment on any other data that is relevant to your program such as state or national certification/licensure exam results, employment data, etc. If necessary, describe origin and/or data collection methods used.

V. PROGRAMS AND CURRICULUM REVIEW

A. Programs Review

a. Review the CurricUNET "Program of Study" outline for each program and indicating yes/no for each program/certificate.

Program/Certificate Title (include all those programs and certificates that were active at the time of the last CPPR).	Currently active	**New program since last CPPR** (if yes, include active date)	**Program modified since last CPPR** (if yes, include modified date)	**Deactivated since last CPPR** (if yes, include deactivation date)
AS, Construction Technology	Yes	No	Yes	no
CA, Construction Technology	Yes	No	Yes	no

b. **For all Currently Active Programs/Certificates**, review the CurricUNET "Program of Study" outline for each active program/certificate and complete the table by indicating yes/no for each column.

Program/Certificate Title (include only those programs/certificates that are active).	Required courses and electives (including course numbers, titles, and credits) are accurate	Program description is current	Program Learning Outcomes are accurate and include method of assessment.	If any answers are "no" for a program, please enter a date (MM/DD/YYYY) in the next 5 years by which the program will be corrected.
AS, Construction Tech	Yes	Yes	Yes	
CA, Construction Tech	Yes	Yes	Yes	

B. Curriculum Review

Complete the Curriculum Review Worksheet (download from this folder) and submit the form with your CPPR.

Based on information that you enter, the template will create a 5-year calendar for your program to follow during which any modifications to the Course Outline of Record determined during the curriculum review.

What is the purpose of the worksheet? Completing the worksheet provides evidence that the curriculum (including course delivery modalities) have been carefully reviewed during the past five years for currency in teaching practices, compliance with current policies, standards, regulations, and with advisory committee input. The form requires you to include evidence that you have reviewed that the entries on the course outline of record (CurricUNET format) are appropriate and complete.

VI. PROGRAM OUTCOMES, ASSESSMENT AND IMPROVEMENTS

A. Attach or insert the assessment calendar for your program for the next program review cycle.

B.

	2022-2023	2023-2024	2024-2025	2025-2026
Architecture	APPW	APPW+CTER	APPW	CPPR+CTER
Automotive	APPW	APPW+CTER	APPW	CPPR+CTER
Auto Body	APPW	APPW+CTER	APPW	CPPR+CTER
Computer Networking	CPPR+CTER	APPW	APPW+CTER	APPW
Construction	CPPR+CTER	APPW	APPW+CTER	APPW
Criminal Justice	CPPR+CTER	APPW	APPW+CTER	APPW
Electronics	APPW	APPW+CTER	APPW	CPPR+CTER
Engineering	APPW	APPW	APPW	CPPR
Film, TV, Elec Media	APPW	CPPR+CTER	APPW	APPW+CTER
Welding	CPPR+CTER	APPW	APPW+CTER	APPW

C. Have you completed all course assessments in eLumen? If no, explain why you were unable to do so during this program review cycle and what plan(s) exist for completing this in the next program review cycle.

Yes

D. Include the most recent "PLO Summary Map by Course" from eLumen which shows the Course-level SLOs mapped to the Program-level SLOs.

Zzz Cuesta College

ILO/PLO Summary Map by Course/Context

Map Origin: AS_CNST_TECH

Map Target: AS_CNST_TECH

AS_CNST_TECH

AS_CNST_TECH SLOs	Will be able to engage in basic trade skills and practices of and from foundation to roof sheeting and will have achieved the basic skills in plumbing and electrical to personally install a basic system and/or recognize level of quality in more complicated systems provided by specialty contractors.	Will become familiar with the general construction chronology of residential and light commercial building erecting including the purchasing, management, and scheduling of materials and trades.	Will develop an advantage for a greater understanding of the industry with a investment/business approach with a more analytical perspective having a level of academic skills necessary to more easily maintain an understanding of the increasing need to continually familiarize their self with newest technological and financial advancement requirements.	Will develop skills necessary to determine and provide project hard costs by interpreting construction drawings for purposes of developing material take offs and analyze soft costs with respect to other than hard construction costs impacting a projects feasibility and profit.
CTCH163				
Student will achieve entry level familiarity with evaluation of structure zoning, cost estimating, and financing various types of construction projects				
Student will have a general understanding of legal requirements inclusive of types of licensing, bonding, and insurances				
Student will have entry skill sets in soft skills, subcontractor scheduling and management				
CTCH164				
Student to gain entry level understanding of working drawings plot, foundation, floor, roof plans, elevations and identification of symbols, lines, and detail references				

AS_CNST_TECH SLOs	AS_CNST_TECH			
	Will be able to engage in basic trade skills and practices of and from foundation to roof sheeting and will have achieved the basic skills in plumbing and electrical to personally install a basic system and/or recognize level of quality in more complicated systems provided by specialty contractors.	Will become familiar with the general construction chronology of residential and light commercial building erecting including the purchasing, management, and scheduling of materials and trades.	Will develop an advantage for a greater understanding of the industry with a investment/business approach with a more analytical perspective having a level of academic skills necessary to more easily maintain an understanding of the increasing need to continually familiarize their self with newest technological and financial advancement requirements.	Will develop skills necessary to determine and provide project hard costs by interpreting construction drawings for purposes of developing material take offs and analyze soft costs with respect to other than hard construction costs impacting a projects feasibility and profit.
Student will achieve an ability to navigate from detail reference symbols to actual detail page, locate and gain entry level understanding of referenced detail				
Student will achieve ability to reference in construction terminology as well as have an entry level understanding of building code applications as they exist on construction drawings.				
CTCH168				
Demonstrate a working knowledge of basic plumbing theory for potable water systems, waste systems, and vent				
Correctly identify the hand tools and power equipment used by plumber technicians				
Demonstrate how to install rough plumbing systems (waste, vent, and potable water)				
CTCH169				

AS_CNST_TECH SLOs	AS_CNST_TECH			
	Will be able to engage in basic trade skills and practices of and from foundation to roof sheeting and will have achieved the basic skills in plumbing and electrical to personally install a basic system and/or recognize level of quality in more complicated systems provided by specialty contractors.	Will become familiar with the general construction chronology of residential and light commercial building erecting including the purchasing, management, and scheduling of materials and trades.	Will develop an advantage for a greater understanding of the industry with a investment/business approach with a more analytical perspective having a level of academic skills necessary to more easily maintain an understanding of the increasing need to continually familiarize their self with newest technological and financial advancement requirements.	Will develop skills necessary to determine and provide project hard costs by interpreting construction drawings for purposes of developing material take offs and analyze soft costs with respect to other than hard construction costs impacting a projects feasibility and profit.
Understand and communicate the Power Grid, Energy Costs, Electrical Math and Formulas related to power use in the design of residential circuits.				
Demonstrate the proper tools and techniques to install all common circuits, grounding systems and meter service found in residential homes.				
Apply electrical theory, residential electrical code understanding, and installation by designing all circuits needed in a residential home on plans given as a final project at the end of the semester				
CTCH171				
Identify and apply the safety rules established by OSHA.				
Analyze the elements and identify the parts of a blueprint as they relate to the layout of foundations and concrete				

AS_CNST_TECH SLOs	AS_CNST_TECH			
	Will be able to engage in basic trade skills and practices of and from foundation to roof sheeting and will have achieved the basic skills in plumbing and electrical to personally install a basic system and/or recognize level of quality in more complicated systems provided by specialty contractors.	Will become familiar with the general construction chronology of residential and light commercial building erecting including the purchasing, management, and scheduling of materials and trades.	Will develop an advantage for a greater understanding of the industry with a investment/business approach with a more analytical perspective having a level of academic skills necessary to more easily maintain an understanding of the increasing need to continually familiarize their self with newest technological and financial advancement requirements.	Will develop skills necessary to determine and provide project hard costs by interpreting construction drawings for purposes of developing material take offs and analyze soft costs with respect to other than hard construction costs impacting a projects feasibility and profit.
Demonstrate the ability to layout a building from a set of blueprints.				
Acquire the basic skills to form, place steel reinforcement, pour and finish: a concrete slab, a T-foundation, and a concrete stem wall				
Locate and place all hardware and rough ins for all utility lines from a set of blueprints				
CTCH172				
Identify and apply the safety rules established by OSHA.				
Analyze the elements and identify the parts of a blueprint as they relate to framing floors, walls, ceilings, and truss systems				
Acquire the basic skills necessary to frame floors, walls, fireplace openings, and ceilings and truss systems and install windows				

AS_CNST_TECH SLOs	AS_CNST_TECH			
	Will be able to engage in basic trade skills and practices of and from foundation to roof sheeting and will have achieved the basic skills in plumbing and electrical to personally install a basic system and/or recognize level of quality in more complicated systems provided by specialty contractors.	Will become familiar with the general construction chronology of residential and light commercial building erecting including the purchasing, management, and scheduling of materials and trades.	Will develop an advantage for a greater understanding of the industry with a investment/business approach with a more analytical perspective having a level of academic skills necessary to more easily maintain an understanding of the increasing need to continually familiarize their self with newest technological and financial advancement requirements.	Will develop skills necessary to determine and provide project hard costs by interpreting construction drawings for purposes of developing material take offs and analyze soft costs with respect to other than hard construction costs impacting a projects feasibility and profit.
Demonstrate the ability to correctly layout and frame floors, walls, ceilings, and truss systems from a set of blueprints				
CTCH173				
Identify and apply the safety rules established by OSHA.				
Analyze the elements and identify the parts of a blueprint as they relate to various types of roof systems and staircases				
Demonstrate the ability to assemble various types of roof systems and staircases.				
Install and identify different types of roofing materials				
Demonstrate the ability to estimate live and dead loads imposed on a building				
CTCH174				
Identify and apply the safety rules established by OSHA				

Analyze the elements and identify the parts of a blueprint as they relate to various finish elements and materials				

AS_CNST_TECH SLOs	AS_CNST_TECH			
	Will be able to engage in basic trade skills and practices of and from foundation to roof sheeting and will have achieved the basic skills in plumbing and electrical to personally install a basic system and/or recognize level of quality in more complicated systems provided by specialty contractors.	Will become familiar with the general construction chronology of residential and light commercial building erecting including the purchasing, management, and scheduling of materials and trades.	Will develop an advantage for a greater understanding of the industry with a investment/business approach with a more analytical perspective having a level of academic skills necessary to more easily maintain an understanding of the increasing need to continually familiarize their self with newest technological and financial advancement requirements.	Will develop skills necessary to determine and provide project hard costs by interpreting construction drawings for purposes of developing material take offs and analyze soft costs with respect to other than hard construction costs impacting a projects feasibility and profit.
Demonstrate the basic skills to install doors, cabinets, and interior trim.				
Demonstrate the basic skills to build decks and exterior railings				
Identify and utilize different types of interior finishes and materials				
CTCH180A				
Learn the earliest building code f Hammurabis Law 2. Historical significance of code advancement 3. learn the advantage and improtance of reusing existing structueres				
Learn the earliest building code of Hammurabi's Law				
Historical significance of code advancement				
See the importance of re-using existing structures (Chapter34)				
CTCH250				

		AS_CNST_TECH			
SLOs	AS_CNST_TECH	Will be able to engage in basic trade skills and practices of and from foundation to roof sheeting and will have achieved the basic skills in plumbing and electrical to personally install a basic system and/or recognize level of quality in more complicated systems provided by specialty contractors.	Will become familiar with the general construction chronology of residential and light commercial building erecting including the purchasing, management, and scheduling of materials and trades.	Will develop an advantage for a greater understanding of the industry with a investment/business approach with a more analytical perspective having a level of academic skills necessary to more easily maintain an understanding of the increasing need to continually familiarize their self with newest technological and financial advancement requirements.	Will develop skills necessary to determine and provide project hard costs by interpreting construction drawings for purposes of developing material take offs and analyze soft costs with respect to other than hard construction costs impacting a projects feasibility and profit.
Student will become familiar with basic construction materials history and present day appropriate selection for materials usage and effect on design, potential development of new materials and integrations and connections of materials					
Student will gain familiarity with methods, techniques, and processes necessary to describe and evaluate basic structural forces with respect to materials					
Student will be able to acknowledge basic intricacies of building industry with respect to integration of design and describe sequential process of placements and erections.					

ILO/PLO Summary Map by Course/Context

Map Origin: CA_CONST_TCH

Map Target: CA_CONST_TCH

Course	CA_CONST_TCH				
		AS student will develop an advantage for a greater understanding of the industry as a business, approach with a more analytical perspective, and have some level of academic skills necessary to more easily maintain an understanding of the increasing need to continually familiarize their self with newest technological advancements and requirements	Student will be able to engage in basic trade skills and practices of and from foundation to roof sheeting and will have achieved the basic skills in plumbing and electrical to personally install a basic system and/or recognize level of quality in more complicated systems provided by specialty contractors	Will be familiar with the general construction chronology of residential and light commercial building erecting including the purchasing, management, and scheduling of materials and trades	Will develop skills necessary to determine and provide project hard costs by interpreting construction drawings for purposes of developing material take offs and analyze soft costs with respect to other than hard construction costs impacting a projects feasibility and profit.
CTCH163		4			
CTCH164					3
CTCH168			3		
CTCH169			3		
CTCH171			5		
CTCH172			4		
CTCH173			5		
CTCH174			5		
CTCH180A			4		
CTCH250				3	
		4	**29**	**3**	**3**

zzz

c.

E. Include the most recent "ILO Summary Map by Course" from eLumen that shows the Course-level SLOs mapped to the Institutional Learning Outcomes.

Highlight changes made at the course or program level that have resulted from SLO assessment. Please include the evidence of dialog that prompted these changes.

F. Identify and describe any budget or funding requests that are related to student learning outcome assessment results. If applicable, be sure to include requests in the Resource Plan Worksheet (download from this folder) and review the Resource Allocation Rubric.

VII. PROGRAM DEVELOPMENT

Indicate how the program supports efforts to achieve any of the following:

A. Institutional Goals and Objectives

B. Institutional Learning Outcomes

C. Program outcomes

Indicate any anticipated changes in the following areas:

A. Curriculum and scheduling

B. Support services to promote success, persistence and retention

C. Facilities needs

D. Staffing needs/projections

Lastly, address any changes in strategy in response to the predicted budget and FTES target for the next program review cycle.

VIII. END NOTES

If applicable, you may attach additional documents or information, such as awards, grants, letters, samples, lists of students working in the field, etc.

IX. After completing and submitting this document, please complete the Overall Program Strength and Ongoing Viability Assessment with your Dean before May 12, 2023.

SIGNATURE PAGE

Faculty, Director(s), Manager(s), and/or Staff Associated with the Program

Instructional Programs: All full-time faculty in the program must sign this form. If needed, provide an extra signature line for each additional full-time faculty member in the program. If there is no full-time faculty associated with the program, then the part-time faculty in the program should sign. If applicable, please indicate lead faculty member for program after printing his/her name.

Instructional Programs: All full-time director(s), managers, faculty and/or classified staff in the program must sign this form. (More signature lines may be added as needed.)

John Stokes	John Stokes	Apr 19, 2023
Division Chair/Director Name	Signature	Date
Eric Finlayson	Eric Finlayson	Apr 19, 2023
Name	Signature	Date
Name	Signature	Date
Name	Signature	Date
Name	Signature	Date
Name	Signature	Date
Name	Signature	Date

SUPPLEMENTAL DOCUMENTS

FACULTY HIRING PRIORITIZATION INFORMATION (IF APPLICABLE)

If your program requested a faculty position for consideration, please attach or embed the following worksheets that were presented to the College Council. The guidelines for faculty prioritization can be found here: Faculty Prioritization Process Handbook

APPLICABLE SIGNATURES:

Vice President/Dean	**Date**
Division Chair/Director/Designee	**Date**
Other (when applicable)	**Date**

The above-signed individuals have read and discussed this review. The Director/Coordinator, Faculty, and staff in the program involved in the preparation of the CPPR acknowledge the receipt of a copy of the Vice President/ Dean's narrative analysis. The signatures do not necessarily signify agreement.

CTCH_CPPR_2023

Final Audit Report 2023-04-19

Created:	2023-04-18
By:	Emily Hinkle (emily_hinkle@cuesta.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAAfFZVpO9XKwYecNUKs37_YJkCm6tn_PJd

"CTCH_CPPR_2023" History

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