University of Hawai'i Code Request Form for Academic Pro	grams NEW OR MODIFY PROGRAM CODE Form #CR-AP1 Modified October 2019
New Program Code	Modify Program Code Date: 8/12/2020
REQUESTOR CONTACT INFORMA         Name       Debie Amby         Title       Banner/Curriculum Spector         Office/Dept       VCAA         NEW PROGRAM CODE TO CREAT	CampusMaui College, UHecialistEmailPhone808-984-3378
Institution MAU - Univ of Hawaii M	
Level UG - Undergraduate	Effective Term Fall 2020
	centration code similar to an existing major/concentration code:
	ved Classification of Instructional Programs (CIP) Code:
Should this program be available for appl on the online application? If yes, student may	sed the same way at the other UH campuses? Yes No icants to select as their planned course of study Yes No v select the code as their only program of study.
	ogram offered at a location other than the Home 🗌 Yes 🔀 No
Campus? Is this program/major/certificate financia	l aid eligible? Yes X No
Does this certificate qualify as a Gainful E program)? See <u>http://www.ifap.ed.gov/GainfulEmploymentInfo/inde</u> Program Length	Imployment Program (Title IV-eligible certificate       Yes       No         Imployment Program (Title IV-eligible certificate       Yes       No         Imployment Program (Title IV-eligible certificate       1       No         Imployment Program should match what is published by the campus in       1       1         Imployment Program Should match what is published by the campus in       1       1         Imployment Program Should match what is published by the campus in       1       1         Imployment Program Should match what is published by the campus in       1       1
Program Code Request webpage Required Terms of Enrollment: X I	all Spring Summer Extended
	Page <b>1</b> of <b>2</b>

ADDITIONAL COMMENTS (for modifying existing program codes, specify the term to turn on/ off the online application, the recruitment/admission term, and the general student/history/ degree term.)

# **ATTACHMENTS**

BOR Approved: Sole-credential Certificates, Associate (exclu	ding ATS), Bachelor and Graduate Degrees, and sole
credential certificates	

X Curriculum

BOR Meeting Minutes & Supporting Documents

Chancellor Approved: Concentrations,	Certificates and Associate in	<b>Technical Studies (ATS) Degree</b>

- Memo from Chancellor to notify Vice President for Academic Planning and Policy regarding program action.
- X Curriculum

CERTIFICATES ONLY: Please check one (1) statement. This certificate is a ...

BOR approved certificate. BOR Meeting/Approval Date:

Chancellor approved within an authorized BOR program. BOR Program: AAS-CTEC

Chancellor approved CO in accordance with UHCCP 5,203, Section IV.B.10

## VERIFICATIONS

By signing below, I verify that I have reviewed and confirm the above information that is pertinent to my position.

Registrar **Financial Aid Officer** For Community Colleges, (Print Name) (Print Name) verification of consultation with **OVPCC Academic Affairs: Davileigh Naeole** Flora Mora Della Teraoka 8/19/20 Daviligle Neceole Della Maska Signature Signature Date

9/25/2020

Date

# CA-CTEC-BUCO CONSTRUCTION TECHNOLOGY- BUILDING MAINTENANCE AND CONSTRUCTION (CA)

Approved | Fall 2020

# **Proposal Information**

#### **Workflow Status**

Proposer

Clifford Rutherford (Submitter)
 Submitted 9-29-2019

DEPARTMENT (CTE) \\ Curriculum Department Representative

Lawrence Martinson
 Approved 10-2-2019

DEPARTMENT (CTE) \\ Department Chair

Thomas Hussey
 Approved 10-2-2019

(CURRICULUM COMMITTEE CHAIRS) \\ CHAIRS

Timothy Marmack

- Approved 10-13-2019
- Lorelle A S Peros
- Approved 10-13-2019

(ACADEMIC SENATE) \\ SENATE CHAIR

Rosemary Vierra

Approved 10-13-2019

#### (ADMINISTRATION) \\ VCAA

- ✓ Kaheleonolani Dukelow
  - Approved 2-26-2020 Laura Nagle
- Approved 10-25-2019

(ADMINISTRATION) \\ CHANCELLOR

🗸 Lui Hokoana

Approved 6-29-2020

e de la composition de

(BANNER REVIEW/INPUT) \\ BANNER SPECIALIST

Debie Amby

Approved 8-25-2020

1.1.1.1.1.1

(CATALOG & STAR INPUT) \\ STAR GPS SPECIALIST

🛛 Christine Ishihara

🖾 Shane Payba

Code CA-CTEC-BUCO Title CONSTRUCTION TECHNOLOGY- BUILDING MAINTENANCE AND CONSTRUCTION (CA)

# **Proposal Details**

Type of Proposal New

Proposer Name(s) Clifford Rutherford

Internal Proposal Date September 30, 2019

#### **Proposal Summary**

This proposal is a result of the Construction Technology (CTEC) Program's change of course curriculum and number changes to 100 level that were submitted and approved in Spring 2019. These changes enable UHMC to articulate with DOE for dual credit courses, add elective exploratory avenues for undecided majors, and meet requirements for employment in entry level positions in specific building and construction and specialty trades to include facilities management. Additionally, the establishment of three new CA's in the CTEC program allows students to earn their AAS in specific trade areas or concentrations with the ability to transition from two terminal paths to a third transfer path to UH West Oahu's BAS-FMGT.

Course(s)

CARP 120 - Basic Carpentry Skills (Proposal submitted and approved Spring 2019)

CARP 121 - Framing and Exterior Finish (Proposal submitted and approved Spring 2019)

CARP 122 - Interior Finish (Proposal submitted and approved Spring 2019)

FMGT 100 - Introduction to Building Maintenance and Construction (Proposal submitted and approved Spring 2019)

MAIN 130 - Masonry (Proposal submitted and approved Spring 2019)

MAIN 140 - Painting & Decorating (Proposal submitted and approved Spring 2019)

MAIN 150 - Plumbing I (Proposal submitted and approved Spring 2019)

ELEC 100 - Survey of Electrical Math and Physics (Proposal submitted and approved Spring 2019)

ELEC 110 - Residential and Light Commercial Wiring (Proposal submitted and approved Spring 2019)

BLPR 101 - Blueprint & Drafting Foundations (Proposal submitted and approved Spring 2018)

AEC 110 - Basic AutoCAD (Proposal submitted and approved Spring 2018)

OSH 100 - First Aid, CPR, and AED (Proposal submitted and approved Spring 2019)

OSH 110 - Occupational Safety and Health for Construction (Proposal submitted and approved Spring 2019)

General Education required courses curriculum current with their respective departments: ENG 100 - Composition I Or ENG 106 - Report Writing And MATH 100 - Survey of Math Or higher Or BUSN 189 - Business Math

#### **Proposal Rationale/Justification**

Major changes to the CTEC Program's curriculum, certificates and degree pathways are a direct result of over 5 years of consultation and recommendations from local industry leaders in the CTEC Program Advisory Committee, the Maui Facilities Leadership Council, local apprenticeship programs, and other industry experts in workforce development. Changes represent the latest trends in the skills and proficiency required to meet industry employment standards. (See attached Program Supporting Documents).

#### **Proposal Supporting Documents**

CTEC Catalog Program Map Pages (FINAL DRAFT 9-26-19).pdf

#### Other Departments Involved

Yes General Education required courses curriculum current with their respective departments: ENG 100 - Composition I Or ENG 106 - Report Writing And MATH 100 - Survey of Math Or higher Or BUSN 189 - Business Math

Have other departments been consulted?

Yes

#### Proposal Impact(s) - Articulation

Program Coordination Councils for CARP, BLPR, AEC, and ELEC updated to intended CTEC program changes and approved Fall 2017. No articulation at certificate level with this CA.

#### Proposal Impact(s) - Requirements

While the program map changes being made increase the credits required in the CTEC program from 34 credits for the current individual CA to 37 credits for each of the three CA pathways being submitted. Overall credits required for the CTEC AAS through either of the CA pathways are reduced from 63-66 credits to 60 credits.

#### Proposal Impact(s) - Resources

No additional resources. Certificate courses taught by current UHMC faculty and staff.

#### **Department Vote**

5 approve, 0 not approve, 0 abstain, September 27, 2019

#### **Proposer Notes**

# **General Information**

#### Program Title

CONSTRUCTION TECHNOLOGY- BUILDING MAINTENANCE AND CONSTRUCTION (CA)

#### Program Level Type Certificate

#### Degree Type

----

#### **Catalog Description**

The Construction Technology program prepares students in general building construction and maintenance of large or small structures. It allows students to explore different trades prior to selecting a specialization.

College

Division

Department CTE

# **Learning Outcomes**

Outcomes

# **Program Requirements**

Entrance Requirements None

Logic: A

A None

Satisfactory Progress Requirements

Minimum required GPA 2.0 (C) and the minimum acceptable grade 1.0 (D).

Logic: A

Α

#### **Completion Requirements**

Requirements for Certificate of Achievement (CA)

Construction Technology - Building Maintenance and Construction: 37 Credits

Note: ENG 22 may be substituted for the Certificate of Achievement for those not going on for the AAS degree.

Note: MATH 75/82 may be substituted for the Certificate of Achievement or Competence for those not going on for the AAS degree.

Logic: A

- Α
  - All Of these courses:
    - CARP 120 Basic Carpentry Skills
    - CARP 121 Framing and Exterior Finish
    - CARP 122 Interior Finish
    - FMGT 100 Introduction to Building Maintenance and Construction
    - o MAIN 130 Masonry
    - MAIN 140 Painting & Decorating
    - MAIN 150 Plumbing I
    - ELEC 100 Survey of Electrical Math and Physics
    - ELEC 110 Residential and Light Commercial Wiring
    - BLPR 101 Blueprint & Drafting Foundations
    - AEC 110 Basic AutoCAD
    - o OSH 100 First Aid, CPR, and AED
    - OSH 110 Occupational Safety and Health for Construction
  - And any of the following
    - Completed these courses:
      - ENG 100 Composition I
    - Or completed these courses:
      - ENG 106 Report Writing
    - Or ENG 22 may be substituted in the Certificate of Achievement for those not going on for the AAS degree.
  - And any of the following
    - Completed these courses:
      - MATH 100 Survey of Math
    - Or higher
    - Or completed these courses:
      - BUSN 189 Business Math
    - Or MATH75X/82 may be substituted in the Certificate of Achievement for those not going on for the AAS degree.

# **BOR Information**

**Program Justification** 

**Program Mission and Objectives** 

**Program Curriculum Plan** 

**Program Target Group** 

**Program Resources** 

**Program Efficiency** 

Program Effectiveness

# Curriculum Committee (For Administrative Use Only)

1) Start Date

\_

2) Type of Proposal

3) Curriculum Proposal Number

4) Curriculum Committee notes

University of H Code Request	lawaiʻi Form for Academic Pi	rograms	NEV	N OR	R MODIF	<b>Y PROG</b> Modifie	Form #0	CR-AP1
New P	rogram Code	Modify P	rogram C	ode		Date: 8/12	2/2020	
REQUESTOR	CONTACT INFORM	ATION						
	ebie Amby	ATION	6	Maui				
	anner/Curriculum Sp		Campus		i College,			
Office/Dept V		Jecialist	Email Phone		e@hawaii	.edu		
			Phone	000-8	984-3378			
NEW PROGRA	AM CODE TO CREA	TE						
Institution MA	AU - Univ of Hawaii I	Maui College 🔽	Campus	1	MAU - Univ	of Hawaii M	laui Colle	ege 🔽
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	Code	Desc	ription	-		1.10		
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Department Degree/Certifica		Construction Te			Se	ee Banner fo	orm STVD	)EPT
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	(4) /concentration code exi	sts in Bannan places l				ee Banner fo	orm STVM	1AJR
	arrant a new major/con			ng majo	FMG or/concent			
If new major, ple	ase list the BOR's appro	ved Classification of I	nstructional P	rogram	ns (CIP) Cod	0.		
Is this major/con	centration code being u	sed the same way at t	he other UH o	campus		X Yes		No
Should this progr	am be available for app plication? If yes, student ma	licants to select as the	ir planned co	urse of	77.	X Yes		No No
RULES PERTA	INING TO FINANCIA	L AID AND 150%	DIRECT SU	BSIDI	ZED LOAI	N LIMIT L	EGISLA	TION
ls 50% or greater Campus?	of the classes in this pro	ogram offered at a loc	ation other th	nan the	Home	Ye:		No
Is this program/m	najor/certificate financia	Il aid eligible?				Ye	5 🗙	No
program)?	ate qualify as a Gainful E		(Title IV-eligib	ole cert	ificate	Yes	(Transmitted)	No
Program Length	mals are acceptable. The length o		hat is published by	y the camp	<sup>bus in</sup> 1			
Special Program E See Special Program De Program Code Request	esignations Code Definitions on I	RAO A	🔲 В [	XN	P		г	U
Required Terms o	f Enrollment: 🛛 F	all 🛛 S	Spring		Summer		Extende	d
				IR	RAO USE O	NLY: DATE	RECEIV	ED
		Page 1 of	2					

ADDITIONAL COMMENTS (for modifying existing program codes, specify the term to turn on/ off the online application, the recruitment/admission term, and the general student/history/ degree term.)

# ATTACHMENTS

BOR Approved: Sole-credential Certificates, Associate (excluding ATS), Bachelor and Graduate Degrees, and sole credential certificates

BOR Meeting Minutes & Supporting Documents

Chancellor Approved: Concentrations, Certificates and Associate in Technical Studies (ATS) Degree

Memo from Chancellor to notify Vice President for Academic Planning and Policy regarding program action.

X Curriculum

CERTIFICATES ONLY: Please check one (1) statement. This certificate is a ...

BOR approved certificate. BOR Meeting/Approval Date:

Date

Chancellor approved within an authorized BOR program. BOR Program: AAS-CTEC

Chancellor approved CO in accordance with UHCCP 5.203, Section IV.B.10.

# VERIFICATIONS

By signing below, I verify that I have reviewed and confirm the above information that is pertinent to my position.

**Financial Aid Officer** Registrar (Print Name) (Print Name) Davileigh Naeole Flora Mora 8/19/20 Drivileigh Macole 8/19/20 Date Signature

For Community Colleges, verification of consultation with **OVPCC Academic Affairs:** 

Della Teraoka

Signature

Signature

X Curriculum

Date

9/25/2020

# **CA-CTEC-FMGT CONSTRUCTION TECHNOLOGY- FACILITIES MANAGEMENT** (CA)

Approved | Fall 2020

# **Proposal Information**

#### **Workflow Status**

Proposer

 Clifford Rutherford (Submitter) Submitted 9-29-2019

DEPARTMENT (CTE) \\ Curriculum Department Representative

✓ Lawrence Martinson Approved 10-2-2019

DEPARTMENT (CTE) \\ Department Chair

Thomas Hussey Approved 10-2-2019

(CURRICULUM COMMITTEE CHAIRS) \\ CHAIRS

Timothy Marmack

- Approved 10-13-2019 ✓ Lorelle A S Peros
- Approved 10-13-2019

(ACADEMIC SENATE) \\ SENATE CHAIR

✓ Rosemary Vierra

Approved 10-13-2019

#### (ADMINISTRATION) \\ VCAA

- Kaheleonolani Dukelow
  - Approved 2-26-2020
- Laura Nagle Approved 10-25-2019

#### (ADMINISTRATION) \\ CHANCELLOR

- Lui Hokoana ~
- Approved 6-29-2020

(BANNER REVIEW/INPUT) \\ BANNER SPECIALIST

- Debie Amby
- Approved 8-25-2020

(CATALOG & STAR INPUT) \\ STAR GPS SPECIALIST

Solution Christine Ishihara

Shane Payba

Code CA-CTEC-FMGT Title CONSTRUCTION TECHNOLOGY- FACILITIES MANAGEMENT (CA)

# **Proposal Details**

Type of Proposal New

Proposer Name(s) Clifford Rutherford Internal Proposal Date September 30, 2019

#### **Proposal Summary**

This proposal is a result of the Construction Technology (CTEC) Program's change of course curriculum and number changes to 100 level that were submitted and approved in Spring 2019. These changes enable UHMC to articulate with DOE for dual credit courses, add elective exploratory avenues for undecided majors, and meet requirements for employment in entry level positions in specific building and construction and specialty trades to include facilities management. Additionally, the establishment of three new CA's in the CTEC program allows students to earn their AAS in specific trade areas or concentrations with the ability to transition from two terminal paths to a third transfer path to UH West Oahu's BAS-FMGT.

#### Course(s)

**CTEC Program Courses:** 

FMGT 100 - Introduction to Building Maintenance and Construction (Submitted and approved Spring 2019)

FMGT 120 - Introduction to Project Management (Submitted and approved Spring 2019)

FMGT 200 - Mechanical Systems Design and Construction (Submitted and approved Spring 2019)

FMGT 201 - Facilities Operations and Leadership (Submitted and approved Spring 2019)

ELEC 100 - Survey of Electrical Math and Physics (Submitted and approved Spring 2019)

ENRG 101 - Introduction to Sustainable Technology (Submitted and approved Spring 2017)

ENRG 103 - Energy Production Systems (Submitted and approved Spring 2017)

BLPR 101 - Blueprint & Drafting Foundations (Submitted and approved Spring 2017)

STEM/General Education Courses Current by Respective Departments:

BLAW 200 - Legal Environmet Business ECON 120 - Intro Economics ECON 130 - Princ Econ Micro ECON 131 - Princ Econ Macro BUS 120 - Principles of Business SSM 101 - Intro Sci of Sustainability SSM 201 - Sustainable Bldg Design SSM 275 - Basic Energy Production ENG 209 - Bus/Mgr Writing ENG 210 - Research Writing ENG 22

#### MATH 115 - Intro Stats & Probability MATH75X/82

#### **Proposal Rationale/Justification**

Major changes to the CTEC Program's curriculum, certificates and degree pathways are a direct result of over 5 years of consultation and recommendations from local industry leaders in the CTEC Program Advisory Committee, the Maui Facilities Leadership Council, local apprenticeship programs, and other industry experts in workforce development. Changes represent the latest trends in the skills and proficiency required to meet industry employment standards. (See attached Program Supporting Documents).

#### **Proposal Supporting Documents**

CTEC Catalog Pages (All)- Final Draft- 10-13-19.pdf

#### Other Departments Involved

Yes General Education required courses curriculum current with their respective departments: Math, English, STEM

Have other departments been consulted?

Yes

#### Proposal Impact(s) - Articulation

Articulation of Facilities Management CA as per FMGT PCC UH West Oahu/UH Maui College 9/20/2019.

#### Proposal Impact(s) - Requirements

While the program map changes being made increase the credits required in the CTEC program from 34 credits for the current individual CA to 37 credits for each of the three CA pathways being submitted. Overall credits required for the CTEC AAS through either of the CA pathways are reduced from 63-66 credits to 60 credits.

#### Proposal Impact(s) - Resources

No additional resources. Certificate courses taught by current UHMC faculty and staff.

#### **Department Vote**

5 approve, 0 not approve, 0 abstain, September 27, 2019

**Proposer Notes** 

# **General Information**

#### **Program Title**

CONSTRUCTION TECHNOLOGY- FACILITIES MANAGEMENT (CA)

#### Program Level Type Certificate

Degree Type

#### **Catalog Description**

The Construction Technology program prepares students in general building construction and maintenance of large or small structures. It allows students to explore different trades prior to selecting a specialization.

College

Division

Department CTE

# **Learning Outcomes**

Outcomes

# **Program Requirements**

Entrance Requirements None

– None

Satisfactory Progress Requirements Minimum required GPA 2.0 (C) and the minimum acceptable grade 1.0 (D).

-

None

#### **Completion Requirements**

Requirements for Certificate of Achievement (CA) Construction Technology - Facilities Management: 37 Credits Note: ENG 22 may be substituted for the Certificate of Achievement for those not going on for the AAS degree. Note: MATH 75/82 may be substituted for the Certificate of Achievement or Competence for those not going on for the AAS degree. Logic: A

- Α
  - All Of these courses:
    - FMGT 100 Introduction to Building Maintenance and Construction
    - FMGT 200 Mechanical Systems Design and Construction
    - FMGT 201 Facilities Operations and Leadership
    - ELEC 100 Survey of Electrical Math and Physics
    - BLPR 101 Blueprint & Drafting Foundations
    - SSM 201 Sustainable Bldg Design
    - BLAW 200 Legal Environmt Business
  - And any of the following
    - # Of Credits From these courses: 3
      - FMGT 120 Introduction to Project Management
      - BUS 120 Principles of Business
  - And any of the following
    - # Of Credits From these courses: 3
      - ENRG 101 Introduction to Sustainable Technology
      - SSM 101 Intro Sci of Sustainability
  - And any of the following
    - # Of Credits From these courses: 3
      - ENRG 103 Energy Productn Systems
      - SSM 275 Basic Energy Productn
  - And any of the following
    - # Of Credits From these courses: 3
      - ENG 209 Bus/Mgr Writing
      - ENG 210 Research Writing

• Or

- Or ENG 22 may be substituted in the Certificate of Achievement for those not going on for the AAS degree.
- And # Of Credits From these courses: 3
  - ECON 120 Intro Economics
  - ECON 130 Princ Econ Micro
  - ECON 131 Princ Econ Macro
- And any of the following
  - # Of Credits From these courses: 3
    - MATH 103 College Algebra
    - MATH 115 Intro Stats & Probability
  - o Or MATH75X/82 may be substituted in the Certificate of Achievement for those not going on for the AAS degree.

# **BOR Information**

**Program Justification** 

**Program Mission and Objectives** 

**Program Curriculum Plan** 

**Program Target Group** 

**Program Resources** 

**Program Efficiency** 

**Program Effectiveness** 

# Attachments

# Curriculum Committee (For Administrative Use Only)

1) Start Date

----

2) Type of Proposal

3) Curriculum Proposal Number

4) Curriculum Committee notes

University of Hawai'i Code Request Form for Academic Programs	NEW OR MODIFY PROGRAM CODE Form #CR-AP1 Modified October 2019
New Program Code 🗌 Modif	fy Program Code Date: 8/12/2020
REQUESTOR CONTACT INFORMATIONNameDebie AmbyTitleBanner/Curriculum SpecialistOffice/DeptVCAANEW PROGRAM CODE TO CREATEInstitutionMAU - Univ of Hawaii Maui College	Campus       Maui College, UH         Email       debie@hawaii.edu         Phone       808-984-3378
Degree/Certificate(6)COCertificateMajor(4)CTECConstructionConcentration(4)FMGTFacilities MMinor(4)If a similar major/concentration code exists in Banner, p	on Technology       See Banner form STVDEPT         of Competence       See Banner form STVDEGC         on Technology       See Banner form STVMAJR         Ianagement       See Banner form STVMAJR         Iease list the code:       FMGT
Justification to warrant a new major/concentration code If new major, please list the BOR's approved Classification Is this major/concentration code being used the same w Should this program be available for applicants to select	on of Instructional Programs (CIP) Code: yay at the other UH campuses? X Yes No as their planned course of study Yes X No
on the online application? If yes, student may select the code as <b>RULES PERTAINING TO FINANCIAL AID AND 1</b> Is 50% or greater of the classes in this program offered a Campus? Is this program/major/certificate financial aid eligible? Does this certificate qualify as a Gainful Employment Pro-	.50% DIRECT SUBSIDIZED LOAN LIMIT LEGISLATION         at a location other than the Home       Yes         Yes       Yes
program)?         See <a href="http://www.ifap.ed.gov/GainfulEmploymentInfo/index.html">http://www.ifap.ed.gov/GainfulEmploymentInfo/index.html</a> Program Length         In academic years; decimals are acceptable. The length of the program should any online and/or written publication.         Special Program Designations         See Special Program Designations Code Definitions on IRAO         Program Code Request webpage	d match what is published by the campus in          A       B       X       N       P       T       U
Required Terms of Enrollment: 🔀 Fall	Spring Summer Extended

ADDITIONAL COMMENTS (for modifying existing program codes, specify the term to turn on/ off the online application, the recruitment/admission term, and the general student/history/ degree term.)

<b>BOR Approved:</b> Sole-credential Certificates, Associate (excluding ATS), Bachelor and Graduate Degrees, and so	le
credential certificates	

X Curriculum

BOR Meeting Minutes & Supporting Documents

Chancellor Approved: Concentrations, Certificates and Associate in Technical Studies (ATS) Degree

Memo from Chancellor to notify Vice President for Academic Planning and Policy regarding program action.

X Curriculum

CERTIFICATES ONLY: Please check one (1) statement. This certificate is a ...

BOR approved certificate. BOR Meeting/Approval Date: \_\_\_\_

Chancellor approved within an authorized BOR program. BOR Program: AAS-CTEC

Chancellor approved CO in accordance with UHCCP 5.203, Section IV.B.10.

## VERIFICATIONS

By signing below, I verify that I have reviewed and confirm the above information that is pertinent to my position.

<b>Registrar</b> (Print Name)		<b>Financial Aid Off</b> i (Print Name)	cer		For Community Colleges, verification of consultation with				
Flora Mora		Davileigh	Naec	ole	OVPCC Academic Affairs: Della Teraoka				
Finiton	8/19/20	Dueilaile	Nocole	8/19/20	Della Th	aoka	9/25/2020		
Signature	Date	Signature		Date	Signature		Date		

# CO-CTEC-FMGT CONSTRUCTION TECHNOLOGY- FACILITIES MANAGEMENT (CO)

Approved | Fall 2020

# **Proposal Information**

# **Workflow Status** Proposer Clifford Rutherford (Submitter) Submitted 9-29-2019 DEPARTMENT (CTE) \\ Curriculum Department Representative Lawrence Martinson Approved 10-2-2019 DEPARTMENT (CTE) \\ Department Chair Thomas Hussey Approved 10-2-2019 (CURRICULUM COMMITTEE CHAIRS) \\ CHAIRS Timothy Marmack Approved 10-13-2019 Lorelle A S Peros Approved 10-13-2019 (ACADEMIC SENATE) \\ SENATE CHAIR Rosemary Vierra Approved 10-13-2019 (ADMINISTRATION) \\ VCAA Kaheleonolani Dukelow Approved 2-26-2020 Laura Nagle Approved 10-25-2019 (ADMINISTRATION) \\ CHANCELLOR 🖌 Lui Hokoana Approved 6-29-2020 (BANNER REVIEW/INPUT) \\ BANNER SPECIALIST ✓ Debie Amby Approved 7-9-2020

(CATALOG & STAR INPUT) \\ STAR GPS SPECIALIST

🕿 Christine Ishihara

Shane Payba

Code CO-CTEC-FMGT Title CONSTRUCTION TECHNOLOGY- FACILITIES MANAGEMENT (CO)

# **Proposal Details**

Type of Proposal New

Proposer Name(s) Clifford Rutherford

Internal Proposal Date September 30, 2019

#### **Proposal Summary**

This proposal adds the Construction Technology Facilities Management CO to the repertoire of building blocks towards Construction Technology program's AAS and facilitates the establishment of a non-terminal AAS pathway for UHMC CTEC students leading to West Oahu's FMGT concentration BAS degree.

#### Course(s)

FMGT 100 - Introduction to Building Maintenance and Construction (Proposal submitted and approved Spring 2019) FMGT 120 - Introduction to Project Management (Proposal submitted and approved Spring 2019) FMGT 200 - Mechanical Systems Design and Construction (Proposal submitted and approved Spring 2019) FMGT 201 - Facilities Operations and Leadership (Proposal submitted and approved Spring 2019)

#### **Proposal Rationale/Justification**

Major changes to the CTEC Program's curriculum, certificates and degree pathways are a direct result of over 5 years of consultation and recommendations from local industry leaders in the CTEC Program Advisory Committee, the Maui Facilities Leadership Council, local apprenticeship programs, and other industry experts in workforce development. Changes represent the latest trends in the skills and proficiency required to meet industry employment standards. (See attached Program Supporting Documents).

#### **Proposal Supporting Documents**

CTEC Catalog Pages (All)- Final Draft- 10-13-19.pdf

#### **Other Departments Involved**

University of Hawaii West Oahu (UHWO) FMGT BAS

#### Have other departments been consulted?

Yes

#### Proposal Impact(s) - Articulation

This CO has been developed with the advisement and continuing efforts of West Oahu's FMGT faculty through PCC articulation meetings. Final articulation documents will be drafted in the spring 2020 semester.

#### Proposal Impact(s) - Requirements

Creation of the FMGT CO and CA facilitate the overall requirements for the CTEC Associate Degree decrease from 62-65 to 60.

#### Proposal Impact(s) - Resources

Minimal impact is expected as the majority of the courses in the certificate will rely on existing CTEC faculty and lecturers to teach the courses. No additional equipment is required at this time.

#### **Department Vote**

5 approve, 0 not approve, 0 abstain, September 27, 2019

**Proposer Notes** 

# **General Information**

#### **Program Title**

CONSTRUCTION TECHNOLOGY - Facilities Management (CO)

Program	Level	Туре

Certificate

Degree Type

#### **Catalog Description**

The Construction Technology program prepares students in general building construction and maintenance of large or small structures. The program allows students to explore different trades prior to selecting a specialization.

College

Division

Department CTE

# **Learning Outcomes**

Outcomes

# **Program Requirements**

Entrance Requirements None

– None

Satisfactory Progress Requirements Students must earn a GPA of 2.0 or better for all credit courses required in the CO. – None

#### **Completion Requirements**

Requirements for Certificate of Competence (CO) Construction Technology - Facilities Management: 10 credits

#### Logic: A

- A Certificate of Competence (CO) CTEC- Facilities Management: 10 credits
- # Of Credits From these courses: 10
  - FMGT 100 Introduction to Building Maintenance and Construction
  - FMGT 120 Introduction to Project Management
  - FMGT 200 Mechanical Systems Design and Construction
  - FMGT 201 Facilities Operations and Leadership

# **BOR Information**

# Program Justification Program Mission and Objectives Program Curriculum Plan Program Target Group Program Resources Program Efficiency Program Effectiveness Attachments

# **Curriculum Committee (For Administrative Use Only)**

1) Start Date

2) Type of Proposal

3) Curriculum Proposal Number

4) Curriculum Committee notes

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ADDITIONAL COMMENTS (for modifying existing program codes, specify the term to turn on/ off the online application, the recruitment/admission term, and the general student/history/ degree term.)

# ATTACHMENTS

**BOR Approved:** Sole-credential Certificates, Associate (excluding ATS), Bachelor and Graduate Degrees, and sole credential certificates

BOR Meeting Minutes & Supporting Documents

Chancellor Approved: Concentrations, Certificates and Associate in Technical Studies (ATS) Degree

Memo from Chancellor to notify Vice President for Academic Planning and Policy regarding program action.

X Curriculum

CERTIFICATES ONLY: Please check one (1) statement. This certificate is a ...

BOR approved certificate. BOR Meeting/Approval Date: \_\_\_\_\_

Chancellor approved within an authorized BOR program. BOR Program: AAS-CTEC

Chancellor approved CO in accordance with UHCCP 5.203, Section IV.B.10.

## VERIFICATIONS

By signing below, I verify that I have reviewed and confirm the above information that is pertinent to my position.

Registrar<br/>(Print Name)Financial Aid Officer<br/>(Print Name)Flora MoraDavileigh NaeoleFlora MoraDavileigh NaeoleMir Am8/19/20SignatureDateSignatureDate

For Community Colleges, verification of consultation with OVPCC Academic Affairs:

Della Teraoka

Della Ilaoka 9/25/2020

Signature

X Curriculum

Date

# CA-CTEC-FMEC CONSTRUCTION TECHNOLOGY- FACILITIES MECHANICAL (CA)

Approved | Fall 2020

# **Proposal Information**

Workflow Status

Proposer Clifford Rutherford (Submitter) Submitted 9-29-2019 DEPARTMENT (CTE) \\ Curriculum Department Representative Lawrence Martinson Approved 10-2-2019 DEPARTMENT (CTE) \\ Department Chair Thomas Hussey Approved 10-2-2019 (CURRICULUM COMMITTEE CHAIRS) \\ CHAIRS Timothy Marmack Approved 10-13-2019 Lorelle A S Peros Approved 10-13-2019 (ACADEMIC SENATE) \\ SENATE CHAIR Rosemary Vierra Approved 10-13-2019 (ADMINISTRATION) \\ VCAA ✓ Kaheleonolani Dukelow Approved 2-26-2020 Laura Nagle Approved 10-25-2019 (ADMINISTRATION) \\ CHANCELLOR ✓ Lui Hokoana Approved 7-10-2020

(BANNER REVIEW/INPUT) \\ BANNER SPECIALIST

Debie Amby

Approved 8-25-2020

#### (CATALOG & STAR INPUT) \\ STAR GPS SPECIALIST

🕿 Christine Ishihara

🐸 Shane Payba

Code CA-CTEC-FMEC Title CONSTRUCTION TECHNOLOGY- FACILITIES MECHANICAL (CA)

# **Proposal Details**

Type of Proposal New

Proposer Name(s) Clifford Rutherford

**Internal Proposal Date** September 30, 2019

#### **Proposal Summary**

This proposal is a result of the Construction Technology (CTEC) Program's change of course curriculum and number changes to 100 level that were submitted and approved in Spring 2019. These changes enable UHMC to articulate with DOE for dual credit courses, add elective exploratory avenues for undecided majors, and meet requirements for employment in entry level positions in specific building and construction and specialty trades to include facilities management. Additionally, the establishment of three new CA's in the CTEC program allows students to earn their AAS in specific trade areas or concentrations with the ability to transition from two terminal paths to a third transfer path to UH West Oahu's BAS-FMGT

#### Course(s)

ENRG 101 - Introduction to Sustainable Technology (Proposal submitted and approved Spring 2017) ENRG 103 - Energy Productn Systems (Proposal submitted and approved Spring 2017) FMGT 100 - Introduction to Building Maintenance and Construction (Proposal submitted and approved Spring 2019) MAIN 150 - Plumbing I (Proposal submitted and approved Spring 2019) MAIN 155 - Plumbing II (Proposal submitted and approved Spring 2019) MAIN 160 - Small Equipment Repair (Proposal submitted and approved Spring 2019) MAIN 165 - Air Conditioning and Refrigeration (Proposal submitted and approved Spring 2019) MAIN 166 - HVACR Refrigerant Recovery (Proposal submitted and approved Spring 2019) MAIN 167 - HVACR System Design and Controls (Proposal submitted and approved Spring 2019) MAIN 170 - Preventive Maintenance ELEC 100 - Survey of Electrical Math and Physics (Proposal submitted and approved Spring 2019) ELEC 110 - Residential and Light Commercial Wiring (Proposal submitted and approved Spring 2019) BLPR 101 - Blueprint & Drafting Foundations (Proposal submitted and approved Spring 2017) OSH 100 - First Aid, CPR, and AED (Proposal submitted and approved Spring 2019) OSH 110 - Occupational Safety and Health for Construction (Proposal submitted and approved Spring 2019) General Education required courses curriculum current with their respective departments: ENG 100 - Composition I

Or ENG 106 - Report Writing And MATH 100 - Survey of Math Or higher Or BUSN 189 - Business Math

#### **Proposal Rationale/Justification**

Major changes to the CTEC Program's curriculum, certificates and degree pathways are a direct result of over 5 years of consultation and recommendations from local industry leaders in the CTEC Program Advisory Committee, the Maui Facilities Leadership Council, local apprenticeship programs, and other industry experts in workforce development. Changes represent the latest trends in the skills and proficiency required to meet industry employment standards. (See attached Program Supporting Documents).

#### **Proposal Supporting Documents**

CTEC Catalog Program Map Pages (FINAL DRAFT 9-26-19 ).pdf

#### **Other Departments Involved**

Yes General Education required courses curriculum current with their respective departments: ENG 100 - Composition I Or ENG 106 - Report Writing And MATH 100 - Survey of Math Or higher Or BUSN 189 - Business Math

Have other departments been consulted?

Yes

#### Proposal Impact(s) - Articulation

Program Coordination Councils for CARP, BLPR, AEC, and ELEC updated to intended CTEC program changes and approved Fall 2017. No articulation at certificate level with this CA.

#### Proposal Impact(s) - Requirements

While the program map changes being made increase the credits required in the CTEC program from 34 credits for the current individual CA to 37 credits for each of the three CA pathways being submitted. Overall credits required for the CTEC AAS through either of the CA pathways are reduced from 63-66 credits to 60 credits.

#### Proposal Impact(s) - Resources

No additional resources. Certificate courses taught by current UHMC faculty and staff.

#### **Department Vote**

5 approve, 0 not approve, 0 abstain, September 27, 2019

**Proposer Notes** 

# **General Information**

Program Title CONSTRUCTION TECHNOLOGY- FACILITIES MECHANICAL (CA)

Program Level Type Certificate Degree Type

**Catalog Description** 

The Construction Technology program prepares students in general building construction and maintenance of large or small structures. It allows students to explore different trades prior to selecting a specialization.

College

Division

Department CTE

# **Learning Outcomes**

Outcomes

# **Program Requirements**

Entrance Requirements None

-

None

Satisfactory Progress Requirements Minimum required GPA 2.0 (C) and the minimum acceptable grade 1.0 (D).

-

None

#### **Completion Requirements**

Requirements for Certificate of Achievement (CA) Construction Technology - Facilities Mechanical: 37 Credits ENG 22 may be substituted for the Certificate of Achievement for those not going on for the AAS degree. MATH 75/82 may be substituted for the Certificate of Achievement or Competence for those not going on for the AAS degree. Logic: A

- А
  - All Of these courses:
    - ENRG 101 Introduction to Sustainable Technology
    - ENRG 103 Energy Productn Systems
    - FMGT 100 Introduction to Building Maintenance and Construction
    - MAIN 150 Plumbing I
    - MAIN 155 Plumbing II
    - MAIN 160 Small Equipment Repair
    - MAIN 165 Air Conditioning and Refrigeration
    - MAIN 166 HVACR Refrigerant Recovery
    - MAIN 167 HVACR System Design and Controls
    - MAIN 170 Preventive Maintenance
    - ELEC 100 Survey of Electrical Math and Physics
    - ELEC 110 Residential and Light Commercial Wiring
    - BLPR 101 Blueprint & Drafting Foundations
    - o OSH 100 First Aid, CPR, and AED
    - o OSH 110 Occupational Safety and Health for Construction
- And any of the following
  - · Completed these courses:
    - ENG 100 Composition I
  - Or completed these courses:
    - ENG 106 Report Writing
  - Or ENG 22 may be substituted in the Certificate of Achievement for those not going on for the AAS degree.
- And any of the following
  - Completed these courses:
    - MATH 100 Survey of Math
  - Or higher
  - Or completed these courses:
    - BUSN 189 Business Math
  - Or MATH75X/82 may be substituted in the Certificate of Achievement for those not going on for the AAS degree.

# **BOR Information**

**Program Justification** 

**Program Mission and Objectives** 

**Program Curriculum Plan** 

**Program Target Group** 

**Program Resources** 

**Program Efficiency** 

**Program Effectiveness** 

# **Curriculum Committee (For Administrative Use Only)**

1) Start Date

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2) Type of Proposal

3) Curriculum Proposal Number

4) Curriculum Committee notes

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ADDITIONAL COMMENTS (for modifying existing program codes, specify the term to turn on/ off the online application, the recruitment/admission term, and the general student/history/ degree term.)

# ATTACHMENTS

BOR Approved: Sole-credential Certificates, Associate (excluding ATS), Ba	achelor and Graduate Degrees, and sole
credential certificates	

X Curriculum

BOR Meeting Minutes & Supporting Documents

<b>Chancellor Approved:</b>	Concentrations,	Certificates and	Associate in	<b>Technical Studies</b>	(ATS)	Degree

- Memo from Chancellor to notify Vice President for Academic Planning and Policy regarding program action.
- X Curriculum

CERTIFICATES ONLY: Please check one (1) statement. This certificate is a...

- BOR approved certificate. BOR Meeting/Approval Date: \_\_\_\_
- Chancellor approved within an authorized BOR program. BOR Program: AAS-CTEC
  - Chancellor approved CO in accordance with UHCCP 5.203, Section IV.B.10.

## VERIFICATIONS

By signing below, I verify that I have reviewed and confirm the above information that is pertinent to my position.

<b>Registrar</b> (Print Name)		Financial Aid Officer (Print Name)		For Community Colleges, verification of consultation with			
Flora Mora		Davileigh Naed	ole	OVPCC Ac Della Tera	<b>ademic Affairs:</b> oka		
Finiton	8/19/20	Davileijle Nacole	8/19/20	Della	Thaoka	9/25/2020	
Signature	Date	Signature O	Date	Signature		Date	

# CO-CTEC-ACM CONSTRUCTION TECHNOLOGY- AIR CONDITIONING MAINTENANCE (CO)

Approved | Fall 2020

# **Proposal Information**

# **Workflow Status** Proposer Clifford Rutherford (Submitter) Submitted 9-29-2019 DEPARTMENT (CTE) \\ Curriculum Department Representative Lawrence Martinson Approved 10-2-2019 DEPARTMENT (CTE) \\ Department Chair Thomas Hussey Approved 10-2-2019 (CURRICULUM COMMITTEE CHAIRS) \\ CHAIRS Timothy Marmack Approved 10-13-2019 Lorelle A S Peros Approved 10-13-2019 (ACADEMIC SENATE) \\ SENATE CHAIR Rosemary Vierra ✓ Approved 10-13-2019 (ADMINISTRATION) \\ VCAA Kaheleonolani Dukelow V Approved 2-26-2020 Laura Nagle Approved 10-25-2019 (ADMINISTRATION) \\ CHANCELLOR Lui Hokoana ✓ Approved 6-29-2020 (BANNER REVIEW/INPUT) \\ BANNER SPECIALIST Debie Amby

Approved 7-9-2020

(CATALOG & STAR INPUT) \\ STAR GPS SPECIALIST

🛛 Christine Ishihara

Shane Payba

Code CO-CTEC-ACM Title CONSTRUCTION TECHNOLOGY- AIR CONDITIONING MAINTENANCE (CO)

# **Proposal Details**

Type of Proposal New

Proposer Name(s) Clifford Rutherford Internal Proposal Date September 30, 2019

#### **Proposal Summary**

The Air Conditioning Maintenance Certificate of Competence (CO) is created as a result CTEC Program Advisory Committee recommendations, industry recognition of the growing workforce demand on Maui for specific training in the HVAC field, and Perkins grant funding. The CO will create new opportunities for employment and education within the CTEC program's offerings without increasing credits for degrees.

#### Course(s)

MAIN 165 - Air Conditioning and Refrigeration (Proposal submitted and approved Spring 2019) MAIN 166 - HVACR Refrigerant Recovery (Proposal submitted and approved Spring 2019) MAIN 167 - HVACR System Design and Controls (Proposal submitted and approved Spring 2019)

#### **Proposal Rationale/Justification**

Major changes to the CTEC Program's curriculum, certificates and degree pathways are a direct result of over 5 years of consultation and recommendations from local industry leaders in the CTEC Program Advisory Committee, the Maui Facilities Leadership Council, local apprenticeship programs, and other industry experts in workforce development. Changes represent the latest trends in the skills and proficiency required to meet industry employment standards. (See attached Program Supporting Documents).

#### **Proposal Supporting Documents**

• CTEC Catalog Program Map Pages (FINAL DRAFT 9-26-19 ).pdf

#### **Other Departments Involved**

No

Have other departments been consulted?

#### Proposal Impact(s) - Articulation

While a similar certificate is planned through non-credit, only portions of the non-credit curriculum will meet the requirements for CTEC program credits and will be articulated through Prior Learning Assessment (PLA) and evidence of recognized industry certificates if students can show that they have met the SLOs for the individual courses. Example: Valid EPA Section 608 Universal Technician Certificate.

#### Proposal Impact(s) - Requirements

While the overall requirements for the Associate Degree decrease from 62-65 to 60, the Air Conditioning Maintenance CO creates a specialty through established electives in the CTEC Program's map, CAs, and COs without increasing credit requirements.

#### Proposal Impact(s) - Resources

Creation of this certificate is Perkins grant funded. While the grant pays for coordination duties for high school and community outreach, curriculum development and equipment funding. However, the grant does not cover instructor salary. Currently, one faculty and one lecture cover two of the courses and another lecturer with specific expertise will be employed to teach the final of the certificate courses.

#### **Department Vote**

5 approve, 0 not approve, 0 abstain, September 27, 2019

**Proposer Notes** 

# **General Information**

#### **Program Title**

CONSTRUCTION TECHNOLOGY - AIR CONDITIONING MAINTENANCE (CO)

Program Level Type	Degree Type
Certificate	-

#### **Catalog Description**

The Construction Technology program prepares students in general building construction and maintenance of large or small structures. The program allows students to explore different trades prior to selecting a specialization.

College

Division

#### Department

CTE

# **Learning Outcomes**

Outcomes

# **Program Requirements**

Entrance Requirements None

None

#### **Satisfactory Progress Requirements**

Students must earn a GPA of 2.0 or better for all credit courses required in the CO.

– None

#### **Completion Requirements**

Requirements for Certificate of Competence (CO) Construction Technology- Air Conditioning Maintenance: 5 credits

Logic: A

- A Certificate of Competence (CO) CTEC- Maintenance Painting: 4 credits
- # Of Credits From these courses: 5
  - MAIN 165 Air Conditioning and Refrigeration
  - MAIN 166 HVACR Refrigerant Recovery
  - MAIN 167 HVACR System Design and Controls
- And earned a minimum GPA Of: 2

# **BOR Information**

**Program Justification** 

**Program Mission and Objectives** 

**Program Curriculum Plan** 

**Program Target Group** 

**Program Resources** 

**Program Efficiency** 

**Program Effectiveness** 

# **Attachments**

# **Curriculum Committee (For Administrative Use Only)**

1) Start Date

2) Type of Proposal

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3) Curriculum Proposal Number

4) Curriculum Committee notes



August	19,	2020
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#### MEMORANDUM

TO: Donald O. Straney Vice President for Academic Planning and Policy

FROM: Lui K. Hokoana Chancellor

SUBJECT: Program Action at UH Maui College

I have approved the following program actions so that the necessary codes can be established in Banner. If you have any questions or concerns, please let me know. Thank you for your assistance.

#### NEW PROGRAM CODE

AAS-AMT2-ABRP (Auto Body Repair & Painting) Effective Term Fall 2020. CA-AMT2-ABRP (Auto Body Repair & Painting) Effective Term Fall 2020. CO-AMT2-AMHA (Heating & Air Conditioning) Effective Term Fall 2020. CO-AMT2-AMSS (Suspension & Steering) Effective Term Fall 2020. CA-CTEC-BUCO (Building Maintenance & Construction) Effective Term Fall 2020. CA-CTEC-FMGT (Facilities Management) Effective Term Fall 2020. CA-CTEC-FMEC (Facilities Mechanical) Effective Term Fall 2020. CO-CTEC-ACM (Air Conditioning Maintenance) Effective Term Fall 2020. CO-CTEC-FMGT (Facilities Management) Effective Term Fall 2020. AS-CM-CFLM (Filmmaking) Effective Term Fall 2020. AS-CM-GRAP (Graphic Design) Effective Term Fall 2020. AS-CM-WEBD (Web Development) Effective Term Fall 2020. CA-CM-CFLM (Filmmaking) Effective Term Fall 2020. CA-CM-GRAP (Graphic Design) Effective Term Fall 2020. CA-CM-WEBD (Web Development) Effective Term Fall 2020. CO-HSER-YDPR (Youth Development Practitioner) Effective Term Fall 2020. CO-NSCI-SCLT (Science Lab Technician) Effective Term Fall 2020. CO-BTEC-CPRP (Career Preparation) Effective Term Fall 2020.

#### **REPLACE PROGRAM CODE**

CO-BUSM-EMKT (e-Marketing) Effective Term Fall 2017.

#### NEW SUBJECT CODE

HDFS (Human Development & Family Studies) Effective Term Fall 2020. FMGT (Facilities Management) Effective Term Fall 2020.

CC: Pearl Iboshi, Director of IRAO Tammi Oyadomari-Chun, UHCC Director of Academic Programs Debra Nakama, Vice Chancellor of Student Affairs Kahele Dukelow, Dean of Arts & Sciences Laura Nagle, Dean of CTE Kulamanu Ishihara, Assistant Professor, Counseling

> 310 W. Ka'ahumanu Avenue Kahului, HI 96732-1617 Telephone: 808 984-3655 Fax: 808 984-3546 Website: www.maui.hawaii.edu