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Monty Sullivan

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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

### LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM

TO:

Dr. Monty Sullivan

**LCTCS President** 

THROUGH: Dr. Paul Carlsen

Chief Content Officer

FROM:

Dr. René Cintrón

Executive Director of Education and Research

**SUBJECT:** 

Program Revisions at Northwest Louisiana Technical College

DATE:

03/23/2017

### **FOR BOARD ACTION:**

**Recommendation:** Staff recommends that the Board approve the program revisions and terminations listed below.

#### **Program Revisions**

- 1. Associate of Applied Science (AAS) in Industrial Instrumentation Technology (CIP 15.0404) 4 STARS
  - a. Technical Diploma (TD) in Industrial Manufacturing Technology (CIP 15.0613) – 5 STARS
- 2. Technical Diploma (TD) in Industrial Maintenance (CIP 47.0303) 5 STARS
  - a. Certificate of Technical Studies (CTS) in Advanced Manufacturing Technology (CIP 47.0303) 5 STARS (CTP \5.06 | 3
- 3. Technical Diploma (TD) in Automotive (CIP 47.0604) 4 STARS
- Technical Diploma (TD) in Electrician-Commercial Wiring II (CIP 46.0302)
   5 STARS
- 5. Technical Diploma (TD) in Industrial Electrician (CIP 46.0302) 5 STARS
- 6. Technical Diploma (TD) in Welding (CIP 48.0508) 5 STARS
- 7. Technical Diploma (TD) in Air Conditioning and Refrigeration (CIP 47.0201) 5 STARS
- 8. Technical Diploma (TD) in Diesel Power Equipment Technology (CIP 47.0605) 4 STARS
- 9. Technical Diploma (TD) in Information Technology (CIP 11.0901) 5
  STARS
- 10. Certificate of Technical Studies (CTS) in Heavy Construction Vehicle Operator (CIP 49.0202) 5 STARS
- 11. Certificate of Technical Studies (CTS) in Patient Care Technician (CIP 51.2601) 3 STARS

**Background:** NWLTC has revised the above curriculum to directly align with 4 and 5 Star Jobs as established by the Louisiana Workforce Commission. The program requires less credit and contact hours while maintaining the level of rigor required by the Industry-Based Certifications students earn while in the programs. The modifications place emphasis on curriculum development models that promote increased enrollment and program completion.

**Fiscal Impact:** There are no anticipated expenditures associated with the modifications of these programs. Faculty and resources under the existing curriculum will be allocated to the new programs.

**History of Prior Actions:** There is a history of modifying programs due to student and workforce needs.

**Benefits to the System:** The modifications will allow NWLTC to better meet student and workforce needs in other areas.

Approved for Recommendation to the Board

Dr. Monty Sullivan

Date



TYPE OF PROPOSE	D CHANGE				
⊠ New Program		Curriculum Mo	Curriculum Modification		
AWARD LEVEL(S)					
Award Level(s).  Associate of Appl Associate of Scie Associate of Arts Other Associate D Name:	(A.A.)	<ul> <li>☐ Technical Diploma (T.D.)</li> <li>☐ Technical Competency Area (T.C.A.)</li> <li>☑ Certificate of Technical Studies (C.T.S.)</li> <li>☐ Certificate of Applied Science (C.A.S.)</li> <li>☐ Certificate of General Studies (C.G.S.)</li> </ul>			
NAME OF PROGRAM	W(S) and AWARD LEV	EL(S)			
Name: Industrial Man	ufacturing Technology				
CIP: 150613	Credit Hours: 20	Contact Hours: 450	Award Level; CTS		
Name:					
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name			-		
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name:					
CIP:	Credit Hours	Contact Hours:	Award Level:		
This proposal is to a program. The C	PPOSED CHANGE (Forms, and for Program To add an additional Certific (Advanced Manufortificate to meet independent)	ermination, state pro ificate to our already facturing Technician)	gram and all award existing diploma		

			27	include support y board informat	
The addition o council. (See		was requested	l and develope	d by the manufa	cturers'
					- AND RESIDENCE OF THE PROPERTY OF THE PROPERT
IMPLEMENTA	TION DATE (Set	mester and Yea	r) Fall 2017	7	
SITE(S) OF NE	W PROGRAM (	OR GURRICULU	IM MODIFICAT	ION	
☐ Main Camp	us	☐ All Campuse	es	Sites (list bel	ow)
Site 1: Minden		Sites: Sh	reveport		
Site 2: Natchito	ches				
Site 3 Sabine \	/alley				
Site 4: Mansfie	ld				
LOUISIANA W	ORKFORCE CO	OMMISSION ST	AR   EVEL (http	://www.laworks.ne	et/Stars/
∑ 5 Stars	☐ 4 Stars				Star
PLAN FOR PR	OVIDING QUAL	IFIED FACULT	Y (Check all tha	t apply)	4.44
☑ Use Existing #: 3	g Faculty	☐ Hire Adjunct Faculty #:		☐ Hire Full-Time Faculty #:	
MINIMUM CRE	DENTIALS REC	QUIRED FOR FA	ACULTY		
Education:		Experience: 4 y	ears industry	Certification:	
ANTIGIPATED	ENROLLMENT	*			
Students	Year One	Year Two	Year Three	Year Four	Year Five
DAY	20	18	30	28	35
EVENING					

ANTICIPATED ENRO	LIMEN					
Describe Process for Attaining & Estimating Enrollment:	This AMT certificate is driven by industry. All students will be recruit and hired by industry to participate in the program. Therefore, each student will have a sponsor industry. The manufacturer's council has requested a maximum participation of 20 in the first cohort group an committed to recruiting and hiring this number. (See attached minuffrom manufacturer's meeting)					
PROGRAM ACCREDI	TATIO	N.				
is Program Accredita Licensure or Certifica Required?	Is Program Accreditation, Licensure or Certification Required?  Yes  No  If YES, please provide projected accreditation/licensure/certification date:					
Type/Name of Program Accreditation, Licens Certification Required	ure or	200,04141011110	onsure/certificati	on date.		
For initial implementa a current Assistar	ition of it Dear utilized	this certificate cu will have oversig from the Electric	rrent faculty wight of the progra	Il be utilized. In addition, am. Finally, current rentation program. In start-up phase.		
PROGRAM CURRICUL (Use the template below of NEW curriculum with char deloted and/or changed)	r insert	(SEE ATTACH separate attachment propriately noted so t	all modifications	should include the OLD and ear what has been added,		
Ma	whe	Mouan Idemić Officer		$\frac{3-27-17}{\frac{3-27-17}{\text{Date}}}$		



March 17, 2017

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

Attention:

Rene Cintron, Ph.D.

Executive Director, Education and Research

Dear Dr. Cintron

The items on the attached table are being submitted to the Board of Supervisors for consideration at the April 2017 Board Meeting. (See attachment)

#### Justification:

The college has revised these curricula to directly align with 4 and 5 star jobs as established by the Louisiana Workforce Commission. In addition, the curricula have been revised to meet federal DOE requirements for determining program eligibility for Title IV funds. Finally, one exit point (CTS) is being added to the Industrial Manufacturing curriculum as a direct request of business/industry. There will be NO additional costs involved with these revisions.

If approved, these actions would be effective August 2017. If you require any additional information, please do not hesitate to contact me directly.

Thank you for your consideration of this request.

aurie D. Morrow

Respectfully,

Laurie D Morrow

Chief Academic Officer

NORTHWEST LTC CURRICULUM REVISIONS								
EFFECTIVE AUGUST 2017								
Program	Award Level	CIP Code		)ld Hours	1	ew Hours	Star Rating	
Patient Care Technician	CTS	512601	24	725	24	900	3	
Air Conditioning & Refrigeration	TD	470201	45	1350	45	1695	5	
Heavy Construction Vehicle Operator	CTS	490202	32	975	32	1205	5	
Welding	TD	480508	45	1395	45	1690	5	
Industrial Manufacturing addition of CTS	TD	150613	45	1350	45	1690	5	
Electrician - Commercial Wiring II	TD	460302	45	1365	45	1690	5	
Automotive	TD	470604	45	1350	45	1695	4	
Information Technology	TD	110901	45	1350	45	1690	5	
Diesel Powered Equipment Technology	TD	470605	60	1815	45	1690	4	
Industrial Instrumentation Technology	A.A.S.	150404	60	1605	60	1740	4	
Industrial Electrician	TD	460302	45	1395	45	1690	5	
Industrial Maintenance	TD	470303	45	1425	45	1700	5	



TYPE OF PROPOSE	D CHANGE				
☐ New Program		☐ Curriculum Me	☐ Curriculum Modification		
AWARD LEVEL(S)					
Award Level(s):  Associate of Appl Associate of Scie Associate of Arts Other Associate D Name:	nce (A.S.) (A.A.)	☐ Technical Diploma (T.D.) ☐ Technical Competency Area (T.C.A.) ☐ Certificate of Technical Studies (C.T.S.) ☐ Certificate of Applied Science (C.A.S.) ☐ Certificate of General Studies (C.G.S.)			
NAME OF PROGRAM	(S) and AWARD LE	VEL(S)			
Name: Industrial Instr	umentation Technolog	У			
CIP150404	Credit Hours:60	Contact Hours:1740	Award Level:A.A.S.		
Name:					
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name:					
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name:	<b>.</b>				
CIP:	Credit Hours:	Contact Hours:	Award Level:		
DESCRIBE THE PROPOSED CHANGE (For Curriculum Modifications, state previous credit and clock hours, and for Program Termination, state program and all award levels.)  The proposed change is strictly an increase in clock hours. This increase will allow students more time with hands on projects and will produce more experienced and seasoned employees.					

REASON/JUSTIFICATION FOR THE PROPOSED CHANGE (Include support such as four-year university agreements, industry demand, advisory board information, etc.)						
This change was encouraged by business and industry in order to meet the requirement for the USDOE of a 37.5 to 1 clock to credit hour ratio in determining program eligibility for Title IV federal funds. Our stakeholders realize the importance of this financial assistance for our students and wish to eliminate any barriers to such aid. This increase in clock hours will provide students more hands on opportunities as well as ensure this program is eligible for federal funding.						
IMPLEMENTA	TION DATE (Se	mester and Yea	r)	Fall 201	7	
SITE(S) OF NE	W PROGRAM	OR CURRICULU	M M	DDIFICAT	ION	
☐ Main Camp	us	☐ All Campuse	es	•	Sites (list bel	ow)
Site 1:Minden				THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER, THE OWNER OWNER, THE OWNER OWNER, THE OWN		
Site 2:						
Site 3						
Site 4:				TO THE PARTY OF TH		
LOUISIANA WORKFORCE COMMISSION STAR LEVEL (http://www.laworks.net/Stars/)         □ 5 Stars       □ 3 Stars       □ 2 Stars       □ 1 Star						
PLAN FOR PR	OVIDING QUAL	IFIED FACULTY	/ (Ch	eck all tha	t apply)	
⊠ Use Existing #:	Use Existing Faculty		lty	☐ Hire Full-Time Faculty #:		
MINIMUM CRE	DENTIALS REC	QUIRED FOR FA	CUL	TY		
Education:		Experience:4 ye	ars in	ndustry	Certification:	
ANTICIPATED	ENROLLMENT	*				
Students	Year One	Year Two	Ye	ar Three	Year Four	Year Five

ANTICIPATED ENROLLMEN	*				
DAY					
EVENING					
Describe Process for Attaining & Estimating Enrollment:					
PROGRAM ACCREDITATION	2 4				
Is Program Accreditation,	Yes		⊠ No	No see and the second s	
Licensure or Certification Required?	If YES, please accreditation/lic	provide projected censure/certificat	d ion date:		
Type/Name of Program Accreditation, Licensure or Certification Required:					
DESCRIBE IMPLEMENTATION	N COSTS (Include	Faculty, Facilities	, Library Resource	es, etc.)	
This change will NOT result					
PROGRAM CURRICULUM (SEE ATTACHED) (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)					
SIGNATURES:  Collège Chief Acad  Collège Chief Exec	lare		3-20 Date 3- 20 Date	1-17	

### Industrial Instrumentation Technology

### **Program Description & Curriculum**

This program trains students to become competent, qualified instrument technicians who can meet the ever-changing demands of modern industry. This program is offered to provide training leading to employment for area residents as a result of business/industrial demand.

#### Degrees/Certificates

Associate of Applied Science (AAS), Technical Diploma (TD)
Certificate of Technical Studies (CTS)
Technical Competency Area (TCA)

Avoilable degrees and certificates may vary at each campus. Check with your local campus for more information.

#### CIP 150404

	Industrial Instrumentation Technology CURRICULUM			
Course #	Course Title	Lecture/ Lab Hours	Credit Hours	Clock Hours
INST 1110	Introduction to Industrial Instrumentation	1/2	3	150
ETRN 1131	Basic Electricity	1/3	4	120
	TCA - Ele	ectrical Helper I	7	270
ETRN 1221	Basic Electronics	1/3	4	120
ELEC 1440	Motor Controls	0/3	3	135
	TCA – Ele	ctronic Repair I	14	525
ELEC 1450	Variable Frequency Drives	0/2	2	120
INST 2750	Programmable Logic Controllers	1/3	4	120
INST 1431	Temperature and Flow	0/3	3	90
ELEC 1330	Generators, Motors, and Transformer Operation	0/2	2	120
		TS – E/I Helper	25	1245
INST 1340	Pressure and Level Measurement	1/2	3	90
INST 2731	Analytical Measurement	0/2	2	60
INST 1430	Final Elements	1/2	3	75
INST 2610	Controllers	0/3	3	90
INST 2820	Principles of Process Control	1/2	3	75
INST 2831	Analog Control Systems	1/2	3	75
INST 2841	Digital Control Systems	1/2	3	75
	TD – Industrial Instrumenta	tion Technician	45	1515
Transferable General Educa	ation Courses Required for AAS	Marie British		
ENGL 1015	English Composition	3/0	3	45
MATH 1015	College Algebra	3/0	3	45
PSYC 2015	Introduction to Psychology	3/0	3	45
PHSC 1015	Physical Science I	3/0	3	45

### Program Description & Curriculum

SPCH 1015	Introduction to Public Speaking	3/0	3	45
AAS – Industrial Instrumer		mentation Technology	60	1740
Optional Electives				-
CSRV 1000	Customer Service	3/0	3	45
CSRV 2000	Customer Service & Sales	3/0	3	45
ENTP 1000	Foundations of Entrepreneurship	3/0	3	45
requirements.	Chief Academic Officer/designee, the following courses may be su	- Comments		
INST 2991	Special Projects I	0/1	1	30
INST 2991 INST 2993	Special Projects I Special Projects II	- Comments	1 2	
INST 2991 INST 2993 INST 2995	Special Projects I  Special Projects II  Special Projects III	0/1	1	30
INST 2991 INST 2993 INST 2995 INST 2996	Special Projects I Special Projects II	0/1 0/2	1 2	30 60
INST 2991 INST 2993 INST 2995	Special Projects I  Special Projects II  Special Projects III	0/1 0/2 0/3	1 2 3	30 60 90



TYPE OF PROPO	SED CHANGE				
☐ New Program		☐ Curriculum Mo	□ Curriculum Modification		
AWARD LEVEL(S	)				
Award Level(s):  Associate of Al Associate of Al Associate of Al Other Associat Name:	rts (A.A.)	☐ Technical Com ☐ Certificate of Te	<ul> <li>☑ Technical Diploma (T.D.)</li> <li>☐ Technical Competency Area (T.C.A.)</li> <li>☐ Certificate of Technical Studies (C.T.S.)</li> <li>☐ Certificate of Applied Science (C.A.S.)</li> <li>☐ Certificate of General Studies (C.G.S.)</li> </ul>		
NAME OF PROGR	RAM(S) and AWARD LE	VEL(S)			
Name: Industrial M	lanufacturing Technology	!			
CIP: 150613	Credit Hours: 45	Contact Hours: 1690	Award Level: TD		
Name:			1		
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name:			1		
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name:					
CIP:	Credit Hours:	Contact Hours:	Award Level:		
This proposal is t program. The more advance reflect clock h	ROPOSED CHANGE (Factorise, and for Program of add an additional Cele CTS (Advanced Manual certificate to meet in four changes only. This is Federal DOE. (See	rtificate to our already ufacturing Technician) dustry demands. In a	existing diploma will allow students a		

				include support y board informat		
The addition of this certificate was requested and developed by the manufacturers' council. (See Attached)						
IMPLEMENTATI	TION DATE (So	mester and Yea	r) Fall 2017	7		
11011 Inches 2011 Care 2 W 1 2 X 3	TON DATE (SC	meater and ree	rali 2011			
SITE(S) OF NE	W PROGRAM	OR CURRICULL	JM MODIFICAT	ION		
☐ Main Camp	us	☐ All Campuse	es	Sites (list bel	ow)	
Site 1: Minden		Sites: Sh	reveport			
Site 2: Natchito	ches					
Site 3 Sabine V	/alley					
Site 4: Mansfie	ld					
LOUIGIANA M	ODVEODOS O	DARRICCION OT	A 73 1 73 (271 /L.)		-1/61	
				://www.laworks.n		
	4 Star	s	ars 25	Stars 1	Star	
PLAN FOR PR	OVIDING QUAI	LIFIED FACULT	Y (Check all tha	t apply)		
☑ Use Existing	g Faculty	☐ Hire Adjunc	t Faculty	☐ Hire Full-Tim	e Faculty	
#: 3		#:		#:		
MINIMUM CRE	DENTIALS RE	QUIRED FOR FA	ACULTY			
Education:		Experience: 4 y	vears industry	Certification:	The state of the s	
ANTICIPATED	ENROLLMENT	Γ:		***************************************		
Students	Year One	Year Two	Year Three	Year Four	Year Five	
DAY	20	<u>18</u>	<u>30</u>	28	35	
EVENING						

ANTICIPATED ENROL	LMENT	*			
Describe Process for Attaining & Estimating Enrollment:	This AMT certificate is driven by industry. All students will be recruited and hired by industry to participate in the program. Therefore, each student will have a sponsor industry. The manufacturer's council has requested a maximum participation of 20 in the first cohort group and committed to recruiting and hiring this number. (See attached minutes from manufacturer's meeting)				
PROGRAM ACCREDIT	TATION:				
Is Program Accreditat		☐ Yes		⊠ No	
Licensure or Certificat Required?	tion	If YES, pleas accreditation.	e provide projecte /licensure/certifica	ed ation date:	
Type/Name of Program Accreditation, Licensu Certification Required	ire or				
DESCRIBE IMPLEMEN	ITATION	√ COSTS (Inclu	ide Faculty, Facilitie	es, Library Resources, etc.)	
For initial implementation of this certificate current faculty will be utilized. In addition, a current Assistant Dean will have oversight of the program. Finally, current equipment will be utilized from the Electrical and Instrumentation program. In essence no additional costs will be incurred in the initial start-up phase.					
PROGRAM CURRICULUM (SEE ATTACHED)  (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)					
SIGNATURES:  College Chief Academic Officer  College Chief Executive Officer  Date  3-20-17  Date  3-30-17  Date					

### Industrial Manufacturing Technology (CIP 15.0613)

**About the Program:** The purpose of this program is to provide specialized classroom instruction and practical shop experience to prepare students for employment in a variety of jobs in the industrial manufacturing field. This program consists of a core set of courses and four concentration areas from which the student can choose to make up the diploma.

### **Degrees/Certificates**

Technical Diploma (TD)

Certificate of Technical Studies (CTS)

Optional prep course is CPTR 1002 (Computer Literacy & Applications)

#### **CURRICULUM**

Course No.	Course Title	Lecture	Lab	Total Credit Hrs.	Total Clock Hrs
	CORE COURSES:				
ORNT 1000	Freshman Seminar	1	0	1	15
IMFG 1100	Introduction to Manufacturing	3	0	3	45
IMFG 1120	Tools and Equipment Used in Manufacturing	1	3	4	135
IMFG 1200	Automation	1	3	4	120
IMFG 1300	Introduction to Fabrication, Process Technology, & Machining	1	3	4	135
	CTS – Certification for Manufacturing (C4M)			16	450
	AUTOMATION AND CONTROLS CONCENTRATION	ON: (Core +	the fo	liowing)	
IMFG 1140	Hydraulics Applications	0	3	3	130
IMFG 1130	Pneumatics Applications	0	2	2	130
IMFG 1215	Basic Electronics	2	2	4	130
IMFG 1220	Digital Electronics	1	2	3	145
	CTS- INDUSTRIAL ELECTRONICS TECHNICIAN			28	985
IMFG 1230	Introduction to Programming	1	2	3	125
IMFG 1235	Motor Controls	0	3	3	145
IMFG 1250	Advanced PLC Applications	0	3	3	145
	Elective or Co-op	0	3	3	130
	Elective or Co-op	0	3	3	130
JOBS 2450	Job Seeking Skills	2	0	2	30
	TD – Industrial Manufacturing Technology Automation and Controls Concentration			45	1690
	MILLWRIGHT CONCENTRATION: (Core	+ the follo	wing)		
IMFG 1320	Millwright I	3	0	3	90
IMFG 1321	Millwright I Lab	0	2	2	130
IMFG 1420	Millwright II	2	0	2	90
IMFG 1421	Millwright II Lab	0	3	3	130
IMFG 1130	Pneumatics Applications	0	2	2	130
	CTS - MILLWRIGHT APPRENTICE			28	1020
IMFG 1325	Pipefitting	0	2	2	75
IMFG 1140	Hydraulics Applications	0	3	3	130

IMFG 1210	Material Handling	1	1	2	95
IMFG 1315	Welding	0	2	2	115
	Elective or Co-op	0	3	3	130
	Elective or Co-op	0	3	3	130
JOBS 2450	Job Seeking Skills	2	0	2	30
	TD – Industrial Manufacturing Technology Millwright Concentration			45	1690
	MACHINE TOOL TECHNOLOGY CONCENTRATION	ON: (Core +	the follo	wing)	
IMFG 1110	Shop Mathematics	2	1 1	3	75
IMFG 1310	Machine Shop I	3	3	6	250
IMFG 1340	Basic Lathe	0	3	3	160
IMFG 1440	Basic Mill	0	3	3	160
	CTS-CNC OPERATOR			31	1095
IMFG 1410	Machine Shop II	3	3	6	250
IMFG 2710	CNC	1	2	3	200
IMFG 2720	Precision Grinding	0	3	3	115
JOBS 2450	Job Seeking Skills	2	0	2	30
	TD – Industrial Manufacturing Technology			45	1690
	Machine Tool Technology Concentration				
INDU	STRIAL INSTRUMENTATION & ELECTRICAL CONCE	NTRATION	· ICare +	the follow	ingl
INST 1110	Introduction to Industrial Instrumentation	1	2	3	75
IIET 1433	Wiring/Electrical Blueprint Interpretation	2	1	3	140
IIET 1214	Basic Electronics	1	2	3	140
ELMT 2520	National Electrical Code	0	2	2	140
	CTS - Instrumentation/Electrical Technician			27	945
IIET 2123	Understanding Programmable Controllers	1	2	3	140
IMFG 1235	Motor Controls	0	3	3	140
INST 1330	Pressure and Level Measurement	1	3	4	145
IIET 1413	Flow and Final Control	2	1	3	145
IIET 2733	Introduction to Temperature & Analytical Processes	2	1	3	145
JOBS 2450	Job Seeking Skills	2	0	2	30
	TD - Industrial Manufacturing Technology			45	1690
	Industrial Instrumentation & Electrical Technician Concen	tration			
With approval froi requirements.	m the Chief Academic Officer/designee, the following course:	s may be subs	tituted for	any of the a	bove course
IMFG 2991	Special Projects				
IMFG 2991	Special Projects I	0	1	1	30
	Special Projects II	0	2	2	60
IMFG 2995	Special Projects III	0	3	3	90
IMFG 2996	Special Projects IV	3	0	3	45
IMFG 2998	Special Projects V	1	0	1	15
IMFG 2997	Practicum	0	3	3	135
IMFG 2999	Cooperative Education	0	3	3	135

ADMT 1100	Safety Culture	1	0	1	15
ADMT 1110	Workplace Organization	1	0	1	15
ADMT 1115	Fluid Power	1	2	3	75
ADMT 1120	Intro to Motor Controls	1	2	3	75
ADMT 1125	Welding for Maintenance	1	2	3	75
ADMT 1200	Lean Manufacturing	1	0	1	15
ADMT 1210	Programmable Logic Controllers	1	2	3	75
ADMT 1230	Integrated Control Systems	1	2	3	75
ADMT 1240	Problem Solving	1	0	1	15
ADMT 1250	Maintenance Reliability	1	0	1	15
	CTS - Advanced Manufacturing Technician			20	450

# Advanced Manufacturing Technician Northwest Louisiana Technical College – Natchitoches Campus Program Discussion Minutes

March 6, 2017

Organizations/Attendees to the meeting included Alliance Compressors – Natchitoches (Brian Brock, Production Manager; Ken Gardner, Plant Manager; Michael Richard, Lean Manufacturing Manager), Boise Cascade – Lena (David Elliott, Plant Manager), RoyOMartin (Donna Bailey, Human Resource Manager, Oakdale), Coordinating and Development Corporation – Shreveport (Nada Percival, Vice President, Workforce Development, Comptroller; Knox Ross, President & CEO), Louisiana Community and Technical College System (Laurie Morrow, Dean, Northwest Louisiana Technical College (NWLTC) - Natchitoches campus, Natchitoches; Patrick Murphy, Project Manager, Workforce Development, Central La. Technical Comm. College, Alexandria; Nub Parker, Director, Manufacturing Center, Central Louisiana Technical Community College, Alexandria; Karl Young, Assistant Dean, NWLTC - Natchitoches Campus, Natchitoches), Northwestern State University – Natchitoches (Dr. Ali Ahmad, Department Head, Engineering Technology; Dr. Margaret Kilcoyne, Interim Dean, College of Business and Technology), Central Louisiana Economic Development Alliance – Alexandria (Wayne Denley, Vice President, Knowledge Platforms), and Natchitoches Community Alliance – Natchitoches (Mike Wolff, Vice President, Economic Development).

The group toured the newly designated Manufacturing Resource Center at the Northwest Louisiana Technical College (NWLTC) – Natchitoches campus. This space was the former automotive repair training center.

The group reconvened in the meeting space and reviewed upcoming events and training opportunities that include:

- www.fame-usa.com upcoming events
- Benchmark Trip March 22, San Antonio, Texas
- The Advanced Manufacturing Career Pathways/AMT Conference May 15-17 Florence, Kentucky
- Hope Street Group AMT Conference May 23 25 Washington D. C.
- AMT Academy July 10 21 Georgetown, Kentucky
  - July 10 14 AMT program matters
    - July 17 21 AMT instructor training
      - · Safety culture, workplace organization, lean manufacturing problem solving
- 2017 National Career Pathways Network (NCPN) National Conference Oct 25 27, St. Louis, Missouri
- AMT Academy training November/December specifics pending
  - o AMT instructor training one week maintenance reliability

A key outcome of this meeting is to ensure the curriculum contained sufficient technical instruction to satisfy the technical needs for each participating manufacturer. The attached draft curriculum and course descriptions for the AMT program was reviewed. The course work includes 60 – 65 hours of credit from NSU Engineering Technology program with courses pulled from the Industrial Engineering Technology track along with some additional courses pulled from the Electronic Engineering Technology track. The course work also includes 15 – 20 credit hours of instruction on technical course content directly from the technology college.

Since the two-year program platform is the Associated of Science degree compared to the Associate of Applied Science curriculum, there is a requirement for 27 general education hours compared to 15 general education hours. This higher level of general education hours can provide a better bridge for additional education toward a Bachelor of Science degree with a requirement of 39 general education course credits. Discussion centered around the options for the general education course work. Dr. Ahmad will send out to the group the allowed options for feedback.

The initial reaction from the group is that the technical courses appear to cover the full basis, but each manufacturer was tasked to bring this curriculum and course descriptions back to the technical leaders at their facilities for feedback. With this feedback, Dr. Ahmad will do a final tweak of the curriculum and submit this course grouping to the NSU

Curriculum Review Committee (CRC) for approval as a third concentration for an Associate of Science degree from NSU Engineering Technology called the Advanced Manufacturing Technology concentration.

Student recruitment was discussed with a target student needing to be college ready since they will have to apply and be admitted to NSU. Target recruitment include graduating high school seniors admitted to NSU with a key focus on those students expressing an interested in the Engineering Technology program, current NSU students and students identified by regional Career Compass counselors as college ready and interested in a technical program. Mike and Dr. Ahmad will meet with NSU Recruiting Director Jana Lucky to discuss university recruiting opportunities.

Program logistics were discussed that included:

- With a minimum of 10 students, the AMT courses will receive a special section with all courses taught at the NWLTC

   Natchitoches Campus with students applying and enrolling through NSU. There will be an emphasis for the general education courses to imbed manufacturing related exercises in the course material.
- NSU program lead is Dr. Ali Ahmad; NWTLC Natchitoches Campus lead is Laurie Morrow; Economic
  Development/Community lead is Mike Wolff; each participating manufacturer needs to identify a lead contact for
  their business
- Once a student applies and is eligible, their information will be passed along to the manufacturer they designated or
  to each participating manufacturer if no designation; each eligible student will be informed to reach out directly to
  the participating manufacturers for sponsorship discussion and selection
- Early application period is April 3 May 15; late application period is May 16 June 15. Students submitting
  applications during the early application period and become eligible will be given preferred consideration
- Manufacturers will select their sponsored students starting June 20 and expect to complete around July 1; if multiple
  manufacturers select the same student, the recommended placement process is to first place a student with the
  manufacturer that recruited the student and provided recruitment notice to the NSU and NWLTC program
  coordinators; and second, if there was not a specific manufacturer who recruited that student, then placement
  assignments will be conducted on a first come, first placed basis
- Each student is required to sign an agreement to allow sponsoring manufacturer to have access to school attendance and performance information
- If a student dos not perform to acceptable standards in the classroom or manufacturing role, this student can be fired and released by the sponsoring manufacturer
- Once a student is enrolled and no longer employed by the original sponsoring manufacturer, the student is not
  eligible to re-enroll for the current program; the student may apply for a subsequent AMT program

Funding opportunities were discussed. Areas of opportunity being explored through CDC include equipment funding and on-the-job grant funds for the initial period of the labor cost for the student interns.

#### To do items include:

- Each organization will review the upcoming events and determine their involvement with each to ensure the highest success of the AMT launch in our region
- Dr. Ahmad will provide the general education options for feedback
- Each manufacturer will provide feedback on the technical content and their take on the general education options
- With this feedback, Dr. Ahmad will submit the Advanced Manufacturing Technology concentration to the NSU CRC for review and approval
- Dr. Ahmad and Mike Wolff will meet with NSU Recruiting Director Jana Lucky and Career Compass Regional Director Krystal Burch to discuss program recruitment
- Dr. Ahmad and Laurie Morrow will pull together an agreement between NSU and NWLTC
- Dr. Ahmad and Laurie Morrow will pull together an agreement between each participating manufacturer and the AMT program and provide to the manufacturers for their feedback and approval
- Dr. Ahmad and Mike Wolff will develop the AMT program website with brochure, curriculum and application
- Dr. Ahmad and Laurie Morrow, with input from the manufacturers, will pull together qualified instructors for the AMT program



TYPE OF PROPOSE	D CHANGE			
☐ New Program		☐ Curriculum Mo	dification	
AWARD LEVEL(S) Award Level(s):				
	(A.A.)	<ul> <li>☐ Technical Diploma (T.D.)</li> <li>☐ Technical Competency Area (T.C.A.)</li> <li>☐ Certificate of Technical Studies (C.T.S.)</li> <li>☐ Certificate of Applied Science (C.A.S.)</li> <li>☐ Certificate of General Studies (C.G.S.)</li> </ul>		
NAME OF PROGRA	M(S) and AWARD LEV	EL(S)		
Name: Industrial Mair	ntenance			
CIP470303	Credit Hours:45	Contact Hours:1700	Award Level:TD	
Name:				
CIP:	Credit Hours:	Contact Hours:	Award Level:	
Name:				
CIP:	Credit Hours:	Contact Hours:	Award Level:	
Name:			1	
CIP:	Credit Hours:	Contact Hours:	Award Level:	
credit and clock hot levels.)  The proposed chan	ime with hands on pro	ermination, state pro se in clock hours. T		

				include support s y board informati	
requirement program el importance barriers to	nt for the USDO igibility for Title of this financi such aid. This	DE of a 37.5 to 1 e IV federal fund al assistance for s increase in cloc	clock to cred s. Our stakeh our students k hours will p	order to meet the dit hour ratio in de olders realize the and wish to elim provide students ble for federal fu	etermining e ninate any more hands
IMPLEMENTA	TION DATE (Se	mester and Year	) Fall 2017	7	
SITE(S) OF NE	W PROGRAM	OR CURRICULUM	M MODIFICAT	ION	
☐ Main Camp	ıs	☐ All Campuses	3	Sites (list belo	ow)
Site 1:Natchito	ches				
Site 2:Sabine V	/alley				
Site 3					
Site 4:					
LOUISIANA W	ORKFORCE CO	OMINISSION STA	R LEVEL (http	://www.laworks.ne	et/Stars/)
	☐ 4 Star	s 3 Star	s 🗆 23	Stars	Star
PLAN FOR PR	OVIDING QUAI	LIFIED FACULTY	(Check all tha	t apply)	
☐ Use Existing	g Faculty	☐ Hire Adjunct	Faculty	☐ Hire Full-Time	e Faculty
#:		#:		#:	
MINIMUM CRE	DENTIALS RE	QUIRED FOR FA	CULTY		
Education:		Experience:4 ye	ars industry	Certification:	
ANTICIPATED	ENROLLMENT	° a			
Students	Year One	Year Two	Year Three	Year Four	Year Five

		***************************************					
ANTICIPATED	ENROLL	MENT				***************************************	
DAY							
EVENING	A 700 H A 400 A						
Describe Proce Attaining & Estimating Enrollment:	ess for						
PROGRAM AC	CREDITA	ATION:					
Is Program Ac	creditatio	on.	Yes		⊠ No		
Licensure or C Required?			If YES, please provide projected accreditation/licensure/certification date:				
Type/Name of Accreditation, Certification R	Licensur						
DESCRIBE IM	PLEMENT	TATION	I COSTS (Includ	e Faculty, Facilities	s, Library Resourc	es, etc.)	
This change v	vill NOT r	result i	n any additiona	al costs to the co	ollege.		
PROGRAM CU (Use the template NEW curriculum deleted and/or ch	e below or with chang	insert se	(SEE ATTAC eparate attachment opriately noted so	HED) nt; all modifications that it is visually c	s should include th	e OLD and n added,	
	Maux Maux	e Cl	Pour Officer Utive Officer		3-2 Date 3-20	19	

### **Industrial Maintenance Technology**

### **Program Description & Curriculum**

The purpose of this program is to provide specialized classroom instruction and practical shop experience to prepare students for employment in a variety of jobs in the industrial maintenance field. This program prepares individuals to install, repair, and maintain industrial machinery and equipment such as pumps, motors, pneumatic and hydraulic systems, and production machinery.

#### Degrees/Certificates

Technical Diploma (TD)
Certificate of Technical Studies (CTS)
Technical Competency Area (TCA)

Available degrees and certificates may vary at each campus. Check with your local campus for more information

#### CIP 470303

	Industrial Maintenance Technology CURRICULUM			
Course #	Course Title	Lecture /Lab Hours	Credit Hours	Clock Hours
IMMT 1110	Introduction to Industrial Maintenance Technology	1/0	1	15
IMMT 1111	Welding I	0/3	3	150
IMMT 1211	Material Handling	0/1	1	30
	TCA-	Welder Helper	-5	195
TCA – Welder Helper PLUS				
IMMT 1112	Welding II	0/2	2	115
IMMT 1120	Blueprint Reading	2/0	2	30
	TCA- Fabricat	ion Apprentice	10	145
IMMT 1110 plus				3
IMMT 1311	Pipefitting	0/2	2	60
IMMT 1410	Basic Electricity	1/0	1	30
IMMT 1411	Basic Electricity Lab	0/3	3	90
	TCA – El	ectrical Helper	7	180
IMMT 1110 plus				
IMMT 1220	Pneumatics	3/0	3	90
IMMT 1221	Pneumatics Application	0/2	2	85
IMMT 1110 plus	TCA - Pne	eumatic Helper	6	175
IMMT 1230	Hydraulics	2/2		
IMMT 1440		3/0	3	90
IMMT 1241	Programmable Logic Controllers	0/3	3	120
110(101) 1241	Hydraulics Troubleshooting Projects	0/3	3	150
	CTS – Pneumatic/Hydra	ydraulic Helper	10	360
IMMT 1110 plus	C13 – Prieumatic/ Hydra	anc Apprentice	29	1055
IMMT 1320	Millwright I	3/0	3	90
IMMT 1321	Millwright I Lab	0/2	2	150

### Program Description & Curriculum

		6	240	
IMMT 1110, IMMT 1111, IMMT 1221, IMMT 1320,	IMMT 1211, IMMT 1112, IMMT 1120, IMMT 1311, IMM IMMT 1321 plus	AT 1410, IMMT 1411, IMMT 1220,		
IMMT 1330	Millwright II	2/0	2	90
IMMT 1331	Millwright II Lab	0/3	3	150
		CTS – Millwright Apprentice	39	1535
IMMT 1430	Motor Controls	0/4	4	135
JOBS 2450	Job Seeking Skills	2/0	2	30
	TD – Indu	strial Maintenance Technology	45	1700
With approval from the	Chief Academic Officer/designee, the following courses i			
requirements.	and the second office, addignee, the following courses in	may be substituted for any of the abo	ve course	
	Special Projects I	may be substituted for any of the abo	ve course	30
requirements.				
requirements. IMMT 2991	Special Projects I	0/1	1	30
requirements. IMMT 2991 IMMT 2993	Special Projects I Special Projects II	0/1 0/2	1 2	30 60
IMMT 2991 IMMT 2993 IMMT 2995	Special Projects I Special Projects II Special Projects III	0/1 0/2 0/3	1 2 3	30 60 90



TYPE OF PROPOSEI	D CHANGE				
☐ New Program		☐ Curriculum Mo	☐ Curriculum Modification		
AWARD LEVEL(S)					
Award Level(s):  Associate of Application Associate of Scient Associate of Arts ( Other Associate D Name:	(A.A.)	☐ Technical Com ☐ Certificate of Technicate of A	<ul> <li>☐ Technical Diploma (T.D.)</li> <li>☐ Technical Competency Area (T.C.A.)</li> <li>☐ Certificate of Technical Studies (C.T.S.)</li> <li>☐ Certificate of Applied Science (C.A.S.)</li> <li>☐ Certificate of General Studies (C.G.S.)</li> </ul>		
NAME OF PROGRAM	I(S) and AWARD LEV	EL(S)			
Name: Automotive					
CIP470604	Credit Hours:45	Credit Hours:45 Contact Hours:1695			
Name:					
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name:					
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name:					
CIP:	Credit Hours:	Contact Hours:	Award Level:		
credit and clock hou levels.)  The proposed change	rs, and for Program T ge is strictly an increa me with hands on pro	ermination, state pro use in clock hours. T	ations, state previous gram and all award his increase will allow e more experienced and		

REASON/JUST four-year univ	TIFICATION FO	R THE PROPOS nts, industry de	ED CHANGE ( mand, advisor	Include support y board informat	such as tion, etc.)	
requireme program e importance barriers to	nt for the USDO ligibility for Title e of this financi such aid. This	DE of a 37.5 to e IV federal fund al assistance fo s increase in clo	1 clock to cred ds. Our stakeh or our students ock hours will p	order to meet the dit hour ratio in dit hour ratio in disolders realize the and wish to eliminate or ovide students ble for federal fu	letermining le ninate any more hands	
IMPLEMENTA	TION DATE (Se	mester and Yea	r) Fall 2017	7		
SITE(S) OF NE	W PROGRAM	OR CURRICULU	M MODIFICAT	ION		
☐ Main Camp	us	All Campuse	es	⊠ Sites (list belo	ow)	
Site 1:Shrevep	ort					
Site 2:						
Site 3						
Site 4:						
				://www.laworks.ne	et/Stars/)	
☐ 5 Stars		s ☐ 3 Sta	rs 2 3	Stars 1	Star	
PLAN FOR PR	OVIDING QUAL	IFIED FACULTY	/ (Check all tha	t apply)		
☐ Use Existing #:	g Faculty	☐ Hire Adjunct	Faculty	☐ Hire Full-Time Faculty #:		
MINIMUM CRE	DENTIALS REC	QUIRED FOR FA	CULTY			
Education:		Experience:4 ye	ears industry	Certification:		
ANTICIPATED	ENROLLMENT	9				
Students	Year One	Year Two	Year Three	Year Four	Year Five	

ANTICIPATED	ENROLL	/IENT:				
DAY						
EVENING		and the second				
Describe Proce Attaining & Estimating Enrollment:	ess for					
PROGRAM AC	CREDITA	FION:				
Is Program Ac			Yes		⊠ No	***************************************
Required?  If YES, please provide projected accreditation/licensure/certification date:						
Type/Name of Accreditation, Certification R	Licensure	or				
DESCRIBE IM	PLEMENTA	ATION	COSTS (Include	e Faculty, Facilities	s, Library Resourc	es, etc.)
This change v	vill NOT re	esult ir	n any additiona	l costs to the co	ollege.	
PROGRAM CU (Use the template NEW curriculum deleted and/or ch	e below or in with change	sert se	(SEE ATTAC eparate attachmer opriately noted so	CHED) nt, all modifications that it is visually c	s should include th lear what has bee	e OLD and n added,
(	Jauri College Chie	w	- Clark		3-20 Date Date	17

### **Automotive Technology**

### **Program Description & Curriculum**

The purpose of this program is to provide specialized classroom instruction and practical shop experience to prepare individuals to engage in the servicing and maintenance of all types of automobiles at the entry level. The competencies in the automotive technology program directly correlate with the knowledge required to prepare an individual for the certification test given by the National Institute for Automotive Service Excellence (ASE).

#### Degrees/Certificates

Associate of Applied Science (AAS), Technical Diploma (TD) Certificate of Technical Studies (CTS) Technical Competency Area (TCA)

Available degrees and certificates may vary at each campus. Check with your local campus for more information.

#### CIP 470604

	Automotive Technology CURRICULUM			
Course #	Course Title	Lecture/ Lab Hours	Credit Hours	Clock Hours
AUTO 1002	Introduction to Automotive Technology	2/0	2	60
AUTO 1542	Brakes	1/3	4	150
	TCA - Bı	ake Technician	6	210
AUTO 1002 plus				
AUTO 1671	Electronics I	1/4	5	185
AUTO 1680	Electronics II	0/5	5	185
	TCA – Electi	rical Technician	12	430
AUTO 1002 plus				
AUTO 1342	Transmission, Transaxle, & Manual Drives	1/5	6	210
AUTO 1002 plus	TCA Automatic Transmission & Trans	axle Technician	8	270
AUTO 1860	Engine Performance I	1/4	5	185
AUTO 1870	Engine Performance II	0/4	4	150
	TCA – Engine Performa		11	395
AUTO 1002 plus				
AUTO 1451	Steering and Suspension	1/5	6	210
	TCA – Steering and Suspen	sion Technician	8	270
AUTO 1002 plus	<b>,我们就是一个人的人,我们就是一个人的人的人的人的人的人的人,不是一个人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的</b>		1 27 2	
AUTO 1140	Engine Repair	1/3	4	180
	TCA – Engine Re	pair Technician	6	240
AUTO 1002 plus		ALL BOOK THE	440441	34/3
AUTO 1750	Heating and AC	1/3	4	180
	TCA – Heating and Air Condition	ning Technician	6	240
	TD - Automo	tive Technician	45	1695

Following are addition	al CTS exit points: Students must have completed A	AUTO 1002		
	· · · · · · · · · · · · · · · · · · ·	Engine Performance Technician	21	645
Complete the following T	CAs: All TCAs include Auto 1002			
TCA – Electrical Technic	cian		12	330
TCA – Engine Performa	nce Technician		11	315
	<b>的基础,在一种企业的企业的企业,可是自由的</b>	CTS – Electrical Technician	21	690
Complete the following T	CAs: All TCAs include Auto 1002			
TCA – Engine Repair Te	chnician		6	165
TCA – Automatic Trans	mission & Transaxle Technician		8	195
TCA – Brake Technician			6	150
TCA – Heating and Air (	Conditioning Technician		6	180
		CTS – Power Train Technician	20	675
Complete the following 1	CAs: All TCAs include Auto 1002			
TCA – Engine Repair Te	chnician		6	165
TCA – Automatic Transmission & Transaxle Technician				
TCA – Steering and Suspension Technician				
TCA – Brake Technician				
General Electives				
AUTO 1150	Automotive Internship I	0/4	4	180
AUTO 1250	Automotive Internship II	0/4	4	180
AUTO 1350	Automotive Internship III	0/2	2	90
AUTO 1450	Automotive Internship IV	Automotive Internship IV 0/5		240
AUTO 1550	Automotive Internship V	0/5	5	240
AUTO 1670	JTO 1670 Automotive Internship VI 0/4			180
With approval from the or requirements.	Chief Academic Officer/designee, the following courses r	may be substituted for any of the abo	ve course	
requirenterio.				M F. A.
AUTO 2991	Special Projects I	0/1	1	30
AUTO 2993		Special Projects II 0/2		
AUTO 2995	Special Projects III	0/3	3	90
AUTO 2996	Special Projects IV	3/0	3	45
AUTO 2998	Special Projects V	1/0	1	15
AUTO 2997	Practicum	0/3	3	135
AUTO 2999	Cooperative Education	Cooperative Education 0/3		135



TYPE OF PROPOSE	D CHANGE					
☐ New Program		□ Curriculum Modification				
AWARD LEVEL(S)						
Award Level(s):  Associate of Applied Science (A.A.S.)  Associate of Science (A.S.)  Associate of Arts (A.A.)  Other Associate Degree  Name:		<ul> <li>☐ Technical Diploma (T.D.)</li> <li>☐ Technical Competency Area (T.C.A.)</li> <li>☐ Certificate of Technical Studies (C.T.S.)</li> <li>☐ Certificate of Applied Science (C.A.S.)</li> <li>☐ Certificate of General Studies (C.G.S.)</li> </ul>				
NAME OF PROGRAM	I(S) and AWARD LEV	/EL(S)				
Name: Electrician-Con	nmercial Wiring II					
CIP:460302	Credit Hours:45	Contact Hours:1690	Award Level:TD			
Name:						
CIP:	Credit Hours:	Contact Hours:	Award Level:			
Name:						
CIP: Credit Hours: Co		Contact Hours:	Award Level:			
Name:						
CIP:	Credit Hours: Contact Hours: Award Level:		Award Level:			
DESCRIBE THE PROPOSED CHANGE (For Curriculum Modifications, state previous credit and clock hours, and for Program Termination, state program and all award levels.)  The proposed change is strictly an increase in clock hours. This increase will allow students more time with hands on projects and will produce more experienced and seasoned employees.						

REASON/JUSTIFICATION FOR THE PROPOSED CHANGE (Include support such as four-year university agreements, industry demand, advisory board information, etc.) This change was encouraged by business and industry in order to meet the requirement for the USDOE of a 37.5 to 1 clock to credit hour ratio in determining program eligibility for Title IV federal funds. Our stakeholders realize the importance of this financial assistance for our students and wish to eliminate any barriers to such aid. This increase in clock hours will provide students more hands on opportunities as well as ensure this program is eligible for federal funding. IMPLEMENTATION DATE (Semester and Year) Fall 2017 SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION All Campuses Main Campus Sites (list below) Site 1:Mansfield Site 2:Shreveport Site 3 Site 4: LOUISIANA WORKFORCE COMMISSION STAR LEVEL (http://www.laworks.net/Stars/) □ 5 Stars 4 Stars 3 Stars 2 Stars 1 Star PLAN FOR PROVIDING QUALIFIED FACULTY (Check all that apply) □ Use Existing Faculty ☐ Hire Adjunct Faculty ☐ Hire Full-Time Faculty #: MINIMUM CREDENTIALS REQUIRED FOR FACULTY Education: Experience: 4 years industry Certification: ANTICIPATED ENROLLMENT: Students Year Two Year One Year Three Year Four Year Five

	T-10. (A.)							
ANTICIPATED	ENROLL	MENT	×					
DAY								
EVENING								
Describe Proce Attaining & Estimating Enrollment:	ess for							
PROGRAM AC	CREDITA	ATION:						
Is Program Accreditation,			Yes		⊠ No			
Licensure or Certification Required?			If YES, please accreditation/lic	If YES, please provide projected accreditation/licensure/certification date:				
Type/Name of Program Accreditation, Licensure or Certification Required:								
			I COSTS (Include		s, Library Resource	es, etc.)		
PROGRAM CU (Use the template NEW curriculum deleted and/or ch	e below or with change	nsert se	(SEE ATTACH eparate attachmen opriately noted so	it: all modifications	should include the	e OLD and n added,		
0	Char	rec	emic Officer		3-30 Date 3-20-	2-17		

### ELECTRICIAN-COMMERCIAL WIRING II

### **Program Description & Curriculum**

The purpose of this program is to prepare individuals to install, maintain, troubleshoot, and repair electrical devices, components, and equipment. Graduates may find employment in industrial, residential, and commercial electrical professions.

### Degrees/Certificates

Technical Diploma (TD)
Certificate of Technical Studies (CTS)
Technical Competency Area (TCA)

Available degrees and certificates may vary at each campus. Check with your local campus for more information.

CIP 460302

	Electrician-Commercial Wiring II CURRICULUM			
Course #	Course Title	Lecture /Lab Hours	Credit Hours	Clock Hours
ORNT 1000	Freshman Seminar	1/0	1	15
ELEC 1120	Basic Electricity	2/4	6	200
ELEC 1210	Residential Wiring	2/4	6	200
	TCA – Elec	ctrician Helper	13	415
ELEC 2460	Technical Mathematics for Electricians	1/1	2	60
ELEC 1220	Electrical Raceways	0/3	3	150
ELEC 1230	National Electrical Code	0/2	2	115
ELEC 1311	Residential Wiring Installation	1/5	6	180
ELEC 1430	Blueprint Interpretation	1/2	3	75
CPTR 1000	Introduction to Computers	1/1	2	45
JOBS 2450	Job Seeking Skills	2/0	2	30
	CTS – Resider	Electrical Core	33	1070
Technical Diplomas in speci	7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -			
	alized areas require the completion of the basic core courses PLi	US the completio	n of speci	alty
courses listed in the following	ng groups:			
courses listed in the following ELEC 1330	ng groups:  Generators/Motors and Transformer Operation	0/2	2	115
courses listed in the following ELEC 1330 ELEC 1420	Generators/Motors and Transformer Operation Introduction to Motor Controls	0/2 0/2	2 2	115 115
courses listed in the following ELEC 1330	Generators/Motors and Transformer Operation Introduction to Motor Controls Motor Controls	0/2 0/2 0/3	2 2 3	115 115 160
courses listed in the following ELEC 1330 ELEC 1420 ELEC 1440 ELEC 2520	Generators/Motors and Transformer Operation Introduction to Motor Controls Motor Controls Solid State Theory	0/2 0/2 0/3 1/2	2 2 3 3	115 115 160 75
courses listed in the followin ELEC 1330 ELEC 1420 ELEC 1440	Generators/Motors and Transformer Operation Introduction to Motor Controls Motor Controls Solid State Theory Logic Functions	0/2 0/2 0/3 1/2 0/2	2 2 3 3 2	115 115 160 75 90
ELEC 1330 ELEC 1420 ELEC 1440 ELEC 2520 ELEC 2540	Generators/Motors and Transformer Operation Introduction to Motor Controls Motor Controls Solid State Theory Logic Functions Introduction to Programmable Logic Controllers	0/2 0/2 0/3 1/2 0/2 0/2	2 2 3 3 2 2	115 115 160 75 90
ELEC 1330 ELEC 1420 ELEC 1440 ELEC 2520 ELEC 2720	Generators/Motors and Transformer Operation Introduction to Motor Controls Motor Controls Solid State Theory Logic Functions Introduction to Programmable Logic Controllers TD - Indus	0/2 0/2 0/3 1/2 0/2	2 2 3 3 2	115 115 160 75 90
ELEC 1330 ELEC 1420 ELEC 1440 ELEC 2520 ELEC 2540	Generators/Motors and Transformer Operation Introduction to Motor Controls Motor Controls Solid State Theory Logic Functions Introduction to Programmable Logic Controllers TD - Indus	0/2 0/2 0/3 1/2 0/2 0/2 trial Electrician	2 2 3 3 2 2 47	115 115 160 75 90 90 1715
Courses listed in the following ELEC 1330 ELEC 1420 ELEC 1440 ELEC 2520 ELEC 2540 ELEC 2720  ELEC 1330, 1420, 1440, 252	Generators/Motors and Transformer Operation Introduction to Motor Controls Motor Controls Solid State Theory Logic Functions Introduction to Programmable Logic Controllers  TD - Indus 0, 2540 plus Marine Electricity	0/2 0/2 0/3 1/2 0/2 0/2 trial Electrician	2 2 3 3 2 2 47	115 115 160 75 90 90 1715
Courses listed in the following ELEC 1330 ELEC 1420 ELEC 1440 ELEC 2520 ELEC 2540 ELEC 2720  ELEC 1330, 1420, 1440, 252	Generators/Motors and Transformer Operation Introduction to Motor Controls Motor Controls Solid State Theory Logic Functions Introduction to Programmable Logic Controllers  TD - Indus 0, 2540 plus Marine Electricity	0/2 0/2 0/3 1/2 0/2 0/2 trial Electrician	2 2 3 3 2 2 47 5	115 115 160 75 90 90 1715 553 1690
courses listed in the following ELEC 1330 ELEC 1420 ELEC 1440 ELEC 2520 ELEC 2540 ELEC 2720  ELEC 1330, 1420, 1440, 252 ELEC 2530	Generators/Motors and Transformer Operation Introduction to Motor Controls Motor Controls Solid State Theory Logic Functions Introduction to Programmable Logic Controllers TD - Indus 0, 2540 plus Marine Electricity TD - Ma	0/2 0/2 0/3 1/2 0/2 0/2 trial Electrician 1/4 rine Electrician	2 2 3 3 2 2 47	115 115 160 75 90 90 1715
courses listed in the following ELEC 1330 ELEC 1420 ELEC 1440 ELEC 2520 ELEC 2540 ELEC 2720  ELEC 2730, 1420, 1440, 252 ELEC 2530  ELEC 2542	Generators/Motors and Transformer Operation Introduction to Motor Controls Motor Controls Solid State Theory Logic Functions Introduction to Programmable Logic Controllers TD – Indus 0, 2540 plus Marine Electricity TD – Mai Electrical Work Based I Electrical Work Based II	0/2 0/2 0/3 1/2 0/2 0/2 trial Electrician 1/4 rine Electrician 1/7	2 2 3 3 2 2 47 5 50 8 6	115 115 160 75 90 90 1715 553 1690 330 240
courses listed in the following ELEC 1330 ELEC 1420 ELEC 1440 ELEC 2520 ELEC 2540 ELEC 2720  ELEC 2730, 1420, 1440, 252 ELEC 2530  ELEC 2542	Generators/Motors and Transformer Operation Introduction to Motor Controls Motor Controls Solid State Theory Logic Functions Introduction to Programmable Logic Controllers TD - Indus  0, 2540 plus Marine Electricity TD - Ma Electrical Work Based I Electrical Work Based II	0/2 0/2 0/3 1/2 0/2 0/2 trial Electrician 1/4 rine Electrician	2 2 3 3 2 2 47 5 50 8	115 115 160 75 90 90 1715 553 1690 330
Courses listed in the following ELEC 1330 ELEC 1420 ELEC 1440 ELEC 2520 ELEC 2540 ELEC 2720  ELEC 2720  ELEC 2530  ELEC 2542 ELEC 2543	Generators/Motors and Transformer Operation Introduction to Motor Controls Motor Controls Solid State Theory Logic Functions Introduction to Programmable Logic Controllers TD - Indus  0, 2540 plus Marine Electricity TD - Ma Electrical Work Based I Electrical Work Based II	0/2 0/2 0/3 1/2 0/2 0/2 trial Electrician 1/4 rine Electrician 1/7	2 2 3 3 2 2 47 5 50 8 6	115 115 160 75 90 90 1715 553 1690 330 240
Courses listed in the following ELEC 1330 ELEC 1420 ELEC 1440 ELEC 2520 ELEC 2540 ELEC 2720  ELEC 2720  ELEC 2530 ELEC 2542 ELEC 2543  ELEC 1330, 1420, 1440 plus	Generators/Motors and Transformer Operation Introduction to Motor Controls Motor Controls Solid State Theory Logic Functions Introduction to Programmable Logic Controllers TD - Indus 0, 2540 plus Marine Electricity TD - Ma Electrical Work Based I Electrical Work Based II TD - Comm	0/2 0/2 0/3 1/2 0/2 0/2 trial Electrician 1/4 rine Electrician 1/7 1/5 nercial Wiring I	2 2 3 3 2 2 47 5 50 8 6 47	115 1160 75 90 90 1715 553 1690 330 240 1425

### **Program Description & Curriculum**

CSRV 1000	Customer Service	3	45	
CSRV 2000	Customer Service & Sales	3/0	3	45
ENTP 1000	Foundations of Entrepreneurship	3/0	3	45
SOLR 1000	Solar Fundamentals	3/0	3	45
SOLR 1010	PV Solar Applications	1/2	3	75
SOLR 1020	Industrial Solar Applications	1/2	3	75
SOLR 1030	Solar Thermal Applications	1/2	3	75
With approval from the Cl	hief Academic Officer/designee, the following courses may t	be substituted for any	of the abo	ove
course requirements.				
ELEC 2991	Special Projects I	0/1	1	30
ELEC 2993	Special Projects II	0/2	2	60
ELEC 2995	Special Projects III	0/3	3	90
ELEC 2996	Special Projects IV	3/0	3	45
ELEC 2998	Special Projects V	1/0	1	15
ELEC 2997	Practicum	0/3	3	135
ELEC 2999	Cooperative Education			135
Additional Exit Points	White the same of		3	
SOLR 1000	Solar Fundamentals	3/0	3	45
SOLR 1010	PV Solar Applications	1/2	3	75
SOLR 1020	Industrial Solar Applications		3	75
SOLR 1030	Solar Thermal Applications	1/2	3	75
	TCA – ELEC: So	lar Systems Installer	12	270
ELEC 1120	Basic Electricity	2/4	6	150
ELEC 1210	Residential Wiring 2/4		6	150
ELEC 2460	Technical Mathematics for Electrician 1/1		2	45
ELEC 1230	National Electrical Code			90
ELEC 1311	Residential Wiring Installation	1/5	2 6	165
ELEC 1420	Introduction to Motor Controls	0/2	2	90
Above six courses plus SOL	R 1000, 1010, and 1020 CTS – ELEC: Energy		33	885



TYPE OF PROPOSE	D CHANGE			
☐ New Program		Curriculum Modification		
AWARD LEVEL(S)				
Award Level(s):  Associate of Applied Science (A.A.S.)  Associate of Science (A.S.)  Associate of Arts (A.A.)  Other Associate Degree  Name:		<ul> <li>☐ Technical Diploma (T.D.)</li> <li>☐ Technical Competency Area (T.C.A.)</li> <li>☐ Certificate of Technical Studies (C.T.S.)</li> <li>☐ Certificate of Applied Science (C.A.S.)</li> <li>☐ Certificate of General Studies (C.G.S.)</li> </ul>		
NAME OF PROGRAM	I(S) and AWARD LEV	EL(S)		
Name: Industrial Elect	rician			
CIP460302	Credit Hours:45	Contact Hours:1690	Award Level:TD	
Name:				
CIP:	Credit Hours:	Contact Hours:	Award Level:	
Name:				
CIP:	Credit Hours:	Contact Hours:	Award Level:	
Name:	t.		L	
CIP:	Credit Hours:	Contact Hours:	Award Level:	
credit and clock hou levels.)  The proposed change	rs, and for Program T ge is strictly an increa ne with hands on pro	ermination, state pro se in clock hours. T	ations, state previous gram and all award his increase will allow the more experienced and	

REASON/JUSTIFICATION FOR THE PROPOSED CHANGE (Include support such as four-year university agreements, industry demand, advisory board information, etc.)						
This change was encouraged by business and industry in order to meet the requirement for the USDOE of a 37.5 to 1 clock to credit hour ratio in determining program eligibility for Title IV federal funds. Our stakeholders realize the importance of this financial assistance for our students and wish to eliminate any barriers to such aid. This increase in clock hours will provide students more hands on opportunities as well as ensure this program is eligible for federal funding.						
IMPLEMENTA	TION DATE (Sei	mester and Yea	r) Fall 201	7		
SITE(S) OF NE	W PROGRAM (	OR CURRICULU	M MODIFICAT	ION		
☐ Main Camp	us	All Campuse	s	⊠ Sites (list below)		
Site 1: Mansfie	ld	Site 5: S	Shreveport			
Site 2: Minden						
Site 3: Natchito	oches					
Site 4: Sabine	Valley					
LOUISIANA W	ORKFORGE CO	OMMISSION STA	R LEVEL (http	o://www.laworks.ne	et/Stars/)	
⊠ 5 Stars	☐ 4 Stars	s 🔲 3 Sta	rs	Stars 1	Star	
PLAN FOR PR	OVIDING QUAL	IFIED FACULTY	(Check all the	it apply)		
⊠ Use Existing #:			☐ Hire Adjunct Faculty #:		e Faculty	
MINIMUM CREDENTIALS REQUIRED FOR FACULTY						
Education:	Education: Experience:4 years industry Certification:					
ANTICIPATED	ANTICIPATED ENROLLMENT:					
Students	Students Year One Year Two Year Three Year Four Year Five					

<b>*************************************</b>						
ANTICIPATED	ENROL	LMENT	or No.			
DAY		***************************************				
EVENING	on Comments of A Carl Statement					
Describe Proce Attaining & Estimating Enrollment:	ess for					
PROGRAM AC	CREDIT	ATION:				
Is Program Ac	creditati	ion.	Yes		⊠ No	
Licensure or Certification Required?  If YES, please provide projected accreditation/licensure/certification date:						
Accreditation,	Type/Name of Program Accreditation, Licensure or Certification Required:					
DESCRIBE IMI	PLEMEN	ITATION	I COSTS (Include	e Faculty, Facilities	s, Library Resourc	ces, etc.)
This change will NOT result in any additional costs to the college.						
PROGRAM CU (Use the template NEW curriculum deleted and/or ch	e below o with chan	r insert se	(SEE ATTAC eparate attachmer opriately noted so	HED) nt; all modifications that it is visually o	s should include th	ne OLD and en added,
SIGNATURES:	Jay.	anh	Mouw lemic Officer Ward		Date 3-20	0-17

### **Electrician-Industrial Electrician**

### **Program Description & Curriculum**

The purpose of this program is to prepare individuals to install, maintain, troubleshoot, and repair electrical devices, components, and equipment. Graduates may find employment in industrial, residential, and commercial electrical professions.

#### Degrees/Certificates

Associate of Applied Science (AAS), Technical Diploma (TD) Certificate of Technical Studies (CTS) Technical Competency Area (TCA)

 $A voilable\ degrees\ and\ certificates\ may\ vary\ at\ each\ campus.\ Check\ with\ your\ local\ campus\ for\ more\ information.$ 

#### CIP 460302

	Electrician – Industrial Electrician CURRICULUM			
Course #	Lecture/ Lab Hours	Credit Hours	Clock Hours	
ELEC 1000	Introduction to Industrial Electrician	1/0	1	15
ELEC 1111	Basic Electricity	1/3	4	120
ELEC 1131	Basic Electronics	1/3	4	120
	TCA — Electric	ian Helper I	9	255
ELEC 1000, ELEC 1111, ELEC	C 1131 PLUS			1.7
ELEC 1212	Residential & Commercial Wiring I	0/3	3	90
ELEC 1213	Residential & Commercial Wiring II	0/3	3	90
ELEC 2460	Technical Mathematics for Electricians	1/1	2	70
	TCA – Electrici		17	505
ELEC 1000, ELEC 1111, ELEC	C 1131, ELEC 1212, ELEC 1213, ELEC 2460 PLUS		3 34 5	
ELEC 1313	Industrial Wiring Installation I	0/3	3	90
ELEC 1314	Industrial Wiring Installation II	0/3	3	90
ELEC 1220	Electrical Raceways	0/3	3	120
ELEC 1230	National Electrical Code	0/2	2	120
ELEC 1430	Blueprint Interpretation	1/2	3	120
	CTS - Industrial Electrician	Apprentice	31	1045
TCA – Electrician Helper I,	TCA – Electrician Helper II, and CTS – Industrial Electrician Appren	tice PLUS		1
ELEC 1330	Generators/Motors and Transformer Operation	0/2	2	120
ELEC 1450	Variable Frequency Drives	0/2	2	120
ELEC 1440	Motor Controls	0/3	3	135
ELEC 2630	Introduction to Process Controllers, Level, Temperature, Pressure and Flow	0/3	3	150
ELEC 2620	Programmable Logic Controllers	0/4	4	120
	TD - Industria	l Electrician	45	1690
Optional Electives	THE RESERVE TO SERVE THE RESERVE THE RE			
CSRV 1000	Customer Service	3/0	3	45
CSRV 2000	Customer Service & Sales	3/0	3	45
ENTP 1000	Foundations of Entrepreneurship	3/0	3	45

SOLR 1000	Solar Fundamentals	3/0	3	45
SOLR 1010	PV Solar Applications	1/2	3	75
SOLR 1020	Industrial Solar Applications	1/2	3	75
SOLR 1030	Solar Thermal Applications	1/2	3	75
With approval from the above course requireme	Chief Academic Officer/designee, the following courses may be subs	tituted for any of the		
ELEC 2991	Special Projects I	0/1	1	30
ELEC 2993	Special Projects II	0/2	2	60
ELEC 2995	Special Projects III	0/3	3	90
ELEC 2996	Special Projects IV	3/0	3	45
ELEC 2998	Special Projects V	1/0	1	15
ELEC 2997	Practicum	0/3	3	135
ELEC 2999	Cooperative Education	0/3	3	135
Additional Exit Points				
SOLR 1000	Solar Fundamentals	3/0	3	45
SOLR 1010	PV Solar Applications	1/2	3	75
SOLR 1020	Industrial Solar Applications	1/2	3	75
SOLR 1030	Solar Thermal Applications	1/2	3	75
	TCA - ELEC: So	lar Systems Installer	12	270
ELEC 1111	Basic Electricity	1/3	4	105
ELEC 1211	Residential Wiring & Installation	2/4	6	150
ELEC 2460	Technical Mathematics for Electrician	1/1	2	45
ELEC 1230	National Electrical Code	0/2	2	90
ELEC 1311	Residential Wiring Installation	1/5	6	165
ELEC 1440	Motor Controls	0/3	3	135
Above six courses plus Se	OLR 1000, SOLR 1010, and SOLR 1020 CTS – ELEC: Energy	Systems Technician	35	960



TYPE OF PROPOSE	D CHANGE				
☐ New Program		☐ Curriculum Mo	odification		
AWARD LEVEL(S)					
Award Level(s):  Associate of Appli Associate of Scient Associate of Arts Other Associate D Name:	(A.A.)	☐ Technical Com☐ Certificate of T☐ Certificate of A☐	<ul> <li>☐ Technical Diploma (T.D.)</li> <li>☐ Technical Competency Area (T.C.A.)</li> <li>☐ Certificate of Technical Studies (C.T.S.)</li> <li>☐ Certificate of Applied Science (C.A.S.)</li> <li>☐ Certificate of General Studies (C.G.S.)</li> </ul>		
NAME OF PROGRAM	(S) and AWARD LEV	EL(S)			
Name: Welding			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
CIP:480508	Credit Hours:45	Contact Hours:1690	Award Level:TD		
Name:	· · · · · · · · · · · · · · · · · · ·				
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name:	L. Company				
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name:	i i				
GIP:	Credit Hours:	Contact Hours:	Award Level:		
DESCRIBE THE PRO credit and clock hour levels.)	POSED CHANGE (Fors, and for Program T	r Curriculum Modifica ermination, state pro	ations, state previous gram and all award		
The proposed chang	ne with hands on pro	se in clock hours. Ti jects and will produce	his increase will allow e more experienced and		

· · · · · · · · · · · · · · · · · · ·						
REASON/JUSTIFI four-year university	CATION FO ty agreeme	R THE PROPOS nts, industry de	ED CHANGE mand, adviso	(Include support ry board informa	such as tion, etc.)	
program eligil importance of barriers to su	or the USD pility for Title this financ ch aid. This	OE of a 37.5 to e IV federal fund ial assistance fo s increase in clo	1 clock to creds. Our stake or our student ock hours will	n order to meet the dit hour ratio in orders realize the sand wish to elimprovide students gible for federal fu	determining ne minate any more hands	
IMPLEMENTATIO	N DATE (Se	mester and Yea	r) Fall 201	17		
SITE(S) OF NEW I	PROGRAM	OR CURRICULU	M MODIFICA	TION		
☐ Main Campus		⊠ All Campuse	s	Sites (list below)		
Site 1:						
Site 2:						
Site 3:						
Site 4:						
LOUISIANA WOR	KFORCE CO	OMMISSION STA	R LEVEL (htt	p://www.laworks.n	et/Stars/)	
	☐ 4 Star	s 🗌 3 Sta	rs	Stars 1	Star	
PLAN FOR PROV	IDING QUAL	IFIED FACULTY	(Check all th	at apply)		
Use Existing Fa			Faculty	☐ Hire Full-Time Faculty #:		
MINIMUM CREDE	NTIALS RE	QUIRED FOR FA	CULTY			
Education:		Experience:4 years industry Certification		Certification:		
ANTICIPATED EN	ROLLMENT	* x				
Students	Year One	Year Two	Year Three	Year Four	Year Five	

		***************************************				
ANTICIPATED ENROLLMENT	:					
DAY						
EVENING						
Describe Process for Attaining & Estimating Enrollment:						
PROGRAM ACCREDITATION						
FROGRAM ACCREDITATION		***************************************				
Is Program Accreditation,	Yes		⊠ No			
Licensure or Certification Required?	If YES, please provaccreditation/licens	If YES, please provide projected accreditation/licensure/certification date:				
Type/Name of Program Accreditation, Licensure or Certification Required:						
DESCRIBE IMPLEMENTATION	V COSTS (Include Fac	sulty, Facilitie	s, Library Resource	es, etc.)		
This change will NOT result in any additional costs to the college.						
PROGRAM CURRICULUM (SEE ATTACHED)  (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)						
SIGNATURES:  College Chief Academic Officer  College Chief Executive Officer  Date  Date  Date						

## Welding

### **Program Description & Curriculum**

The purpose of the Welding Program is to prepare individuals for employment in the field of welding. Instruction is provided in various welding processes and techniques including oxyfuel cutting, carbon arc cutting, shielded metal arc welding, gas tungsten arc welding, flux-cored arc welding, gas metal arc welding, pipe-welding, plasma arc cutting, blueprint reading, weld symbols, and joints.

#### Degrees/Certificates

Technical Diploma (TD)
Certificate of Technical Studies (CTS)
Technical Competency Area (TCA)

Available degrees and certificates may vary at each campus. Check with your local campus for more information. **CIP 480508** 

	Welding CURRICULUM			
Course #	Course Title	Lecture /Lab Hours	Credit Hours	Clock Hours
WELD 1111	Occupational Orientation and Safety	2/0	2	30
WELD 1111 PLUS			21 250	
WELD 1141	Electrical Fundamentals	1/1	2	75
	TCA-1	WELDER HELPER	4	105
WELD 1111 PLUS	是"CALLED AND AND AND AND AND AND AND AND AND AN			
WELD 1211	Oxyfuel Systems/ Cutting Processes	1/2	3	115
	TCA - TH	IERMAL CUTTER	5	145
WELD 1111 PLUS	Considerate the second of the	<b>建筑等的东西</b>		
WELD 1141	Electrical Fundamentals	1/1	2	75
WELD 1211	Oxyfuel Systems/ Cutting processes	1/2	3	115
WELD 1131	Welding Inspection & Testing	1/1	2	45
WELD 1413	SMAW Basic Beads	1/1	2	150
WELD 1411	SMAW Fillet Weld	0/3	3	150
	CTS - W	ELDER HELPER II	14	565
CTS Welder Helper II PLUS	的是是 <b>是是这</b> 是一个人,但是一个人,但是一个人的人,			100
WELD 1122	Basic Blueprint, Metallurgy, and Weld Symbols	2/1	3	60
WELD 1421	SMAW V-Groove Open/BU/GOUGE	1/3	4	120
WELD 2100	FCAW Basic Fillet Weld/Groove Welds	1/2	3	150
WELD 2211	GTAW Basic Multi-Joint	1/2	3	120
WELD 2312	GMAW Basic Fillet/Groove Weld	1/3	4	150
WELD 1510	SMAW Pipe 2G	1/3	4	165
WELD 1511	SMAW Pipe 5G	0/4	4	165
WELD 1512	SMAW Pipe 6G	0/4	4	165
JOBS 2450	Job Seeking Skills	2/0	2	30
		TD - WELDING	45	1690

Additional Exit Points				
WELD 1122	Basic Blueprint, Metallurgy, and Weld Symbols	2/1	3	60
WELD 1131	Welding Inspection & Testing	1/1	2	45
	TCA - BASIC BLUEPRINT READING AN		5	105
WELD 1413	SMAW Basic Beads/ Fillet Weld	1/2	3	150
WELD 1421	SMAW V-Groove BU/Groove V-groove Open	1/3	4	120
	TCA - SMAW-ARC WELDER FIL		7	270
WELD 2100	FCAW Basic Fillet Weld/Groove Welds	1/2	3	150
	TCA - FCA	W- BASIC WELDS	3	150
WELD 2211	GTAW Basic Multi-Joint	1/2	3	120
WELD 2231	GTAW Aluminum Multi-Joint	1/2	3	120
	TCA - GT	AW ARC WELDER	6	240
WELD 2312	GMAW Basic Fillet/Groove Weld	1/3	4	150
WELD 1413	SMAW Basic Beads/ Fillet Weld	1/2	3	150
		TCA - Basic Welds	7	300
WELD 1510	SMAW Pipe 2G	1/3	4	165
WELD 1511	SMAW Pipe 5G	0/4	4	165
WELD 1512	SMAW Pipe 6G	0/4	4	165
	TCA - SM/	AW PIPE WELDER	12	495
WELD 2312	GMAW Basic Fillet/Groove Weld	1/3	4	150
WELD 2100	FCAW Basic Fillet Weld/Groove Welds	1/2	3	150
	TCA - GMAW & FCA		7	300
With approval from the C requirements.	Chief Academic Officer/designee, the fallowing courses may be substitut	ed for any of the abo	ve course	
WELD 2991	Special Projects I	0/1	1	30
WELD 2993	Special Projects II	0/2	2	60
WELD 2995	Special Projects III	0/3	3	90
WELD 2996	Special Projects IV	3/0	3	45
WELD 2997	Practicum	0/3	3	135
WELD 2999	Cooperative Education	0/3	3	135



TYPE OF PROPO	SED CHANGE				
☐ New Program		☐ Curriculum	Modification		
AWARD LEVEL(S	)				
Award Level(s):  Associate of Application   Associate of Application   Associate of Application   Other Associate   Name:	ts (A.A.)	☐ Technical C ☐ Certificate o ☐ Certificate o	<ul> <li>☐ Technical Diploma (T.D.)</li> <li>☐ Technical Competency Area (T.C.A.)</li> <li>☐ Certificate of Technical Studies (C.T.S.)</li> <li>☐ Certificate of Applied Science (C.A.S.)</li> <li>☐ Certificate of General Studies (C.G.S.)</li> </ul>		
NAME OF PROGR	AM(S) and AWARD LEV	/EL(S)			
Name: Air Conditio	ning and Refrigeration				
CIP:470201	Credit Hours:45	Contact Hours:169	5 Award Level:TD		
Name:					
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name:					
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name:					
CIP:	Credit Hours:	Contact Hours:	Award Level:		
levels.)  The proposed cha	ours, and for Program T ange is strictly an increa time with hands on pro	ermination, state p	ications, state previous rogram and all award  This increase will allow uce more experienced and		

REASON/JUS' four-year univ	TIFICATION FO ersity agreeme	R THE PROPOS nts, industry de	ED CHANGE (	Include support y board informat	such as tion, etc.)	
This change was encouraged by business and industry in order to meet the requirement for the USDOE of a 37.5 to 1 clock to credit hour ratio in determining program eligibility for Title IV federal funds. Our stakeholders realize the importance of this financial assistance for our students and wish to eliminate any barriers to such aid. This increase in clock hours will provide students more hands on opportunities as well as ensure this program is eligible for federal funding.						
IMPLEMENTA'	TION DATE (Se	mester and Yea	r) Fall 201	7		
SITE(S) OF NE	W PROGRAM	OR CURRICULU	M MODIFICAT	ION		
☐ Main Camp	us	All Campuse	es .	⊠ Sites (list bel	ow)	
Site 1:Natchito	ches			***************************************		
Site 2:Shrevep	ort			The second control of		
Site 3:David W	ade Correctiona	1				
Site 4: Caddo	Correctional	***************************************				
LOUISIANA WORKFORCE COMMISSION STAR LEVEL (http://www.laworks.net/Stars/)  Stars 3 Stars 2 Stars 1 Star						
PLAN FOR PR	OVIDING QUAL	IFIFD FACILITY	(Check all tha	t anniv)		
PLAN FOR PROVIDING QUAL ☑ Use Existing Faculty #:		Hire Adjunct Faculty #:		☐ Hire Full-Time Faculty #:		
MINIMUM CREDENTIALS REQUIRED FOR FACULTY						
Education:	Education: Experience:4 years industry		ears industry	Certification:		
ANTICIPATED ENROLLMENT:						
Students	Year One	Year Two	Year Three	Year Four	Year Five	

1		***				
ANTICIPATED	ENROL	LMENT	5 a			
DAY						
EVENING						
Describe Proce Attaining & Estimating Enrollment:	ess for					
PROGRAM AC	CREDIT	ATION:				
			☐Yes		⊠ No	
ls Program Ac Licensure or C			***************************************	provide projecte		
Required?			accreditation/lic	censure/certificat	ion date:	
Type/Name of Accreditation, Certification R	Licensu	re or				
DESCRIBE IMP	PLEMEN	TATION	COSTS (Include	Faculty, Facilities	s, Library Resource	es, etc.)
This change w	vill NOT	result in	n any additiona	I costs to the co	ollege.	
PROGRAM CURRICULUM (SEE ATTACHED)  (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)						
0	Dia	niel	Moun amic Officer Jack		3-20- Date 3-20- Date	19

## Air Conditioning and Refrigeration Technician

### **Program Description & Curriculum**

The purpose of this program is to provide specialized classroom instruction and practical shop experience to prepare students for employment in a variety of jobs in the field of heating, air conditioning, and refrigeration. The Air Conditioning and Refrigeration program prepares individuals to install, diagnose, repair, and maintain the operating condition of domestic, residential, and commercial heating air conditioning, and refrigeration systems.

#### Degrees/Certificates

Technical Diploma (TD)

Certificate of Technical Studies (CTS)

Technical Competency Area (TCA)

Available degrees and certificates may vary at each campus. Check with your local campus for more information.

#### CIP 470201

	Air Conditioning and Refrigeration Technician CURRICULUM			
Course#	Course Title	Lecture /Lab Hours	Credit Hours	Clock Hours
HACR 1150	HVAC Introduction	1/2	3	100
HACR 1160	Principles of Refrigeration I	1/2	3	115
HACR 1170	Principles of Refrigeration II	1/2	3	115
HACR 1180	Principles of Refrigeration III	1/2	3	120
<b>建设大学</b>		CA – HVAC Helper I	12	450
HACR 1210	Electrical Fundamentals	1/2	3	100
HACR 1220	Electrical Components	1/2	3	115
HACR 1230	Electric Motors	1/2	3	115
HACR 1240	Applied Electricity and Troubleshooting	1/2	3	120
		TS – HVAC Helper II	24	900
HACR 1410	Domestic Refrigeration	1/1	2	75
HACR 1420	Room Air Conditioners	1/1	2	75
	CTS - Domestic A/C & Refri		28	1050
HACR 2510	Residential Central Air Conditioning I	1/2	3	115
HACR 2520	Residential Central Air Conditioning II	1/1	2	115
HACR 2530	Residential System Design	1/1	2	75
HACR 2540	Residential Heating I	1/2	3	115
HACR 2550	Residential Heating II	1/2	3	115
HACR 2560	Residential Heat Pumps	1/1	2	80
JOBS 2450	Job Seeking Skills	2/0	2	30
completion of above seven	CA Helper I, CTS Helper II, and CTS Domestic A/C Refrigeration courses: TD – Residential A/C & Refrige		45	1695
Additional Exit Point:				
HACR2510	Residential Central Air Conditioning I	1/2	3	90
SOLR 1000	Solar Fundamentals	3/0	3	45
SOLR 1030	Solar Thermal Applications	1/2	3	75
	TS Helper II plus above 3 courses. CTS — HACR Energy S	ystems Technician	33	1110
HACR 2810	Commercial Air Conditioning I	2/4	6	265

HACR 2820	Commercial Air Conditioning Controls	3/4	7	265
HACR 2830	Commercial Air Conditioning II	2/4	6	235
Successful completion	of TCA Helper 1, CTS Helper II, JOBS 2450, and the above 3 co	ourses.		
	TD- Commercial Air Co		45	1695
HACR 2910	Commercial Refrigeration I	2/4	6	265
HACR 2920	Commercial Refrigeration Controls	3/4	7	265
HACR 2930	Commercial Refrigeration II	2/4	6	235
Succ	essful completion of TCA Helper I, CTS Helper II, JOBS 2450, ar	nd the above 3 courses.	45	1695
	TD – Commercial Re	efrigeration Technician		
Transferrable General	Education Courses Required for AAS			
Later Allendary States				
ENGL 1015	English Composition I	3/0	3	45
MATH 1015	College Algebra	3/0	3	45
PSYC 2015	Introduction to Psychology	3/0	3	45
PHSC 1015	Physical Science	3/0	3	45
SPCH 1015	Introduction to Public Speaking	3/0	3	45
	AAS – Air Condition	ning and Refrigeration	60	1575
Optional Electives				
CPTR 1000	Introduction to Computers	1/1	2	45
CSRV 1000	Customer Service	3/0	3	45
CSRV 2000	Customer Service & Sales	3/0	3	45
ENTP 1000	Foundation of Entrepreneurship	3/0	3	45
SOLR 1000	Solar Fundamentals	3/0	3	45
SOLR 1010	PV Solar Applications	1/2	3	75
SOLR 1020	Industrial Solar Applications	1/2	3	75
SOLR 1030	Solar Thermal Applications	1/2	3	75
The following courses i	may be substituted for the above course requirements with a	oproval from Chief Acade	mic Offi	er
SPPR 2991	Special Projects I	0/1	1	30
SPPR 2993	Special Projects II	0/2	2	60
SPPR 2995	Special Projects III	0/3	3	90
SPPR 2996	Special Projects IV	3/0	3	45
SPPR 2998	Special Projects V	1/0	1	15
SPPR 2997	Practicum	0/3	3	135
SPPR 2999	Cooperative Education	0/3	3	135
Additional TCA Exit Poi	nt:			100
SOLR 1000	Solar Fundamentals	3/0	3	45
SOLR 1010	PV Solar Applications	1/2	3	75
SOLR 1020	Industrial Solar Applications	1/2	3	75
SOLR 1030	Solar Thermal Applications	1/2	3	75
	TCA - S	iolar Systems Installer	12	270



TYPE OF PROPOSE	D CHANGE			
☐ New Program		□ Curriculum Modification		
AWARD LEVEL(S)				
Award Level(s):  Associate of Applied Science (A.A.S.)  Associate of Science (A.S.)  Associate of Arts (A.A.)  Other Associate Degree  Name:		<ul> <li>☐ Technical Diploma (T.D.)</li> <li>☐ Technical Competency Area (T.C.A.)</li> <li>☐ Certificate of Technical Studies (C.T.S.)</li> <li>☐ Certificate of Applied Science (C.A.S.)</li> <li>☐ Certificate of General Studies (C.G.S.)</li> </ul>		
NAME OF PROGRAM	M(S) and AWARD LE	VEL(S)		
Name: Diesel Powere	d Equipment Technolo	ogy		
CIP470605	Credit Hours:45	Contact Hours:1690	Award Level:TD	
Name:			A Part of the Part	
CIP:	Credit Hours:	Contact Hours:	Award Level:	
Name:				
CIP:	Credit Hours:	Contact Hours:	Award Level:	
Name:				
CIP:	Credit Hours:	Contact Hours:	Award Level:	
levels.)  The proposed change	rs, and for Program ge is strictly an increa me with hands on pro	or Curriculum Modifica Fermination, state pro- ase in clock hours. The ojects and will produce	ations, state previous gram and all award his increase will allow e more experienced and	

REASON/JUS four-year univ	TIFICATION FO ersity agreeme	R THE PROPOS nts, industry de	ED CHANGE (	Include support y board informa	such as tion, etc.)
requireme program e importanc barriers to	ent for the USD eligibility for Title e of this finance such aid. This	OE of a 37.5 to e IV federal fund ial assistance fo s increase in clo	1 clock to created to created to community of the cours of the cours will proceed to community of the cours will proceed to cours with the cours will proceed to cours with the cours will proceed to cours will proceed to cours with the cours will proceed to cours will be considered to course	order to meet the dit hour ratio in concluders realize the sand wish to elimprovide students ible for federal fu	letermining ne minate any more hands
IMPLEMENTA	TION DATE (Se	mester and Yea	r) Fall 201	7	
SITE(S) OF NE	W PROGRAM	OR CURRICULU	M MODIFICAT	ION	
☐ Main Camp	☐ Main Campus ☐ All Campuses		es	⊠ Sites (list bel	ow)
Site 1:Shrevep	ort	•			
Site 2:					
Site 3	****				
Site 4:					
LOUISIANA W	ORKFORCE CO	OMMISSION STA	AR LEVEL (http	o://www.laworks.ne	et/Stars/)
☐ 5 Stars	⊠ 4 Star	s 🗌 3 Sta	rs	Stars 1	Star
PLAN FOR PR	OVIDING QUAL	IFIED FACULTY	(Check all tha	t apply)	
		☐ Hire Adjunct Faculty #:		☐ Hire Full-Time Faculty #:	
MINIMUM CRE	DENTIALS RE	QUIRED FOR FA	CULTY		
Education:	ion: Experience:4 years industry		Certification:		
ANTICIPATED	ENROLLMENT	*			
Students	Year One	Year Two	Year Three	Year Four	Year Five

ANTICIPATED	ENROLLMENT	* *			
DAY					
EVENING					
Describe Proce Attaining & Estimating Enrollment:	ss for				
PROGRAM AC	CREDITATION	k			
Is Program Acc		Yes		⊠ No	
Required?  If YES, please provide projected accreditation/licensure/certification date:					
Type/Name of Accreditation, Certification Re	Licensure or				
DESCRIBE IMP	LEMENTATION	N COSTS (Include	e Faculty, Facilities	s, Library Resource	es, etc.)
This change w	ill NOT result i	n any additiona	I costs to the co	ollege.	
PROGRAM CUI (Use the template NEW curriculum w deleted and/or cha	below or insert so with changes appr	(SEE ATTAC eparate attachmer opriately noted so	HED) it; all modifications that it is visually cl	should include the	e OLD and n added,
	Ollege Chief Exec	Clark		3-20 Date 3-20- Date	-h

## **Diesel Powered Equipment Technology**

#### **Program Description & Curriculum**

The purpose of this program is to provide specialized classroom instruction and practical shop experience to prepare individuals for employment as job entry-level diesel powered equipment technicians. The program prepares the individual to select, safely use, and maintain hand and power tools, jacks, and hoisting equipment. The content includes, but is not limited to, disassembling engines and replacing parts, fuel injection systems, oil andwater pumps, electrical systems, steering and suspension systems, brake systems, drive train, and chassis.

#### Degrees/Certificates

Technical Diploma (TD)
Certificate of Technical Studies (CTS)
Technical Competency Area (TCA)

Available degrees and certificates may vary at each campus. Check with your local campus for more information.

#### CIP 470605

Diesel Powered Equipment Technology CURRICULUM						
Course #	Course Title	Lecture/ Lab Hours	Credit Hours	Clock Hours		
DPET 1120	Safety Skills & Introduction to Diesel	1/2	3	105		
DPET 1130	Diesel Engine Parts Identification & Operating PRI	2/2	4	120		
	TCA – Diesel Technician Helper 7	225		79.65		
DPET 1140	Engines I	1/2	3	105		
DPET 1240	Diesel Engine Fuel Systems	1/2	3	130		
DPET 1210	Basic Diesel Electrical Systems	2/2	4	120		
DPET 1231	Diesel Engine Control Systems	1/1	2	60		
DPET 1150	General Engine Diagnostics	1/2	3	150		
DPET 1310	Introduction to Power Trains	1/1	2	60		
DPET 1320	Transmissions	1/2	3	105		
DPET 2110	Basic Hydraulics	1/1	2	150		
DPET 2130	Brakes	1/3	4	150		
DPET 2210	Fundamentals of Suspension	1/2	3	75		
DPET 2220	Air Conditioning	2/2	4	180		
DPET 2240	Diesel Preventive Maintenance	1/2	3	150		
JOBS 2450	Job Seeking Skills	2/0	2	30		
	TD – Diesel Powered Equipment	Technician	45	1690		
	Optional Elective			F-1700		
CSRV 1000	Customer Service	3/0	3	45		
CSRV 2000	Customer Service & Sales	3/0	3	45		
ENTP 1000	Foundations of Entrepreneurship	3/0	3	45		
With approval from the	Chief Academic Officer/designee, the following courses may be s course requirements.	ubstituted for ar	ny of the a	bove		
DPET 2991	Special Projects I	0/1	1	30		
DPET 2993	Special Projects II	0/2	2	60		
DPET 2995	Special Projects III	0/3	3	90		
DPET 2996	Special Projects IV	3/0	3	45		
DPET 2997	Practicum	0/3	3	135		
DPET 2999	Cooperative Education	0/3	3	135		
DPET 1251	Alternative Fuel Systems	1/1	2	45		
DPET 2120	Advanced Hydraulics	1/2	3	105		

Revised March 2014

DPET 2231	Welding	1/1	2	60
	Below are Certificate Exit Levels		1.363	00
DPET 1120	Safety Skills & Introduction to Diesel	1/2	3	105
DPET 2220	Air Conditioning	2/2	4	130
	TCA – Air Conditio		8	235
DPET 1120	Safety Skills & Introduction to Diesel	1/2	3	105
DPET 2210	Fundamentals of Suspension	1/2	3	75
	TCA – Steering and Suspen		6	180
DPET 1120	Safety Skills & Introduction to Diesel	1/2	3	105
DPET 2110	Basic Hydraulics	1/1	2	150
DPET 2130	Brakes	1/3	4	150
	TCA - Br	ake Technician	9	405
DPET 1120	Safety Skills & Introduction to Diesel	1/2	3	105
DPET 1130	Diesel Engine Parts Identification & Operating PRI	2/2	4	120
DPET 1140	Engines I	1/2	3	105
	TCA – Diesel Engine Technic		10	330
DPET 1120	Safety Skills & Introduction to Diesel	1/2	3	105
DPET 1310	Introduction to Power Trains	1/1	2	60
DPET 1320	Transmissions	1/2	3	105
	TCA - Drive T	rain Technician	8	270
DPET 1120	Safety Skills & Introduction to Diesel	1/2	3	105
DPET 1130	Diesel Engine Parts Identification & Operating PRI	2/2	4	120
DPET 1140	Engines I	1/2	3	105
DPET 1240	Diesel Engine Fuel Systems	1/2	3	130
DPET 1210	Basic Diesel Electrical Systems	2/2	4	120
DPET 1231	Diesel Engine Control Systems	1/1	2	60
DPET 1150	General Engine Diagnostics	1/2	3	150
	CTS – Diesel Eng		22	790



TYPE OF PROPOSI	ED CHANGE				
☐ New Program		☐ Curriculum Modification			
AWARD LEVEL(S)					
Award Level(s):  Associate of App Associate of Scie Associate of Arts Other Associate Name:	(A.A.)	☐ Technical Con☐ Certificate of T☐ Certificate of A☐	<ul> <li>☐ Technical Diploma (T.D.)</li> <li>☐ Technical Competency Area (T.C.A.)</li> <li>☐ Certificate of Technical Studies (C.T.S.)</li> <li>☐ Certificate of Applied Science (C.A.S.)</li> <li>☐ Certificate of General Studies (C.G.S.)</li> </ul>		
NAME OF PROGRA	M(S) and AWARD LE	/EL(S)			
Name: Information Te	echnology				
CIP110901	Credit Hours:45	Contact Hours:1690	Award Level:TD		
Name:					
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name:					
CIP:	Credit Hours:	Contact Hours:	Award Level:		
Name:					
CIP:	Credit Hours:	Contact Hours:	Award Level:		
levels.)  The proposed chan	ge is strictly an increa	ase in clock hours. T	ations, state previous gram and all award his increase will allow e more experienced and		

REASON/JUS four-year univ	TIFICATION FO	R THE PROPOSE ents, industry dem	D CHANGE land, advisor	(Include support ry board informa	such as tion, etc.)	
This change requirement programent important barriers to	was encourage ent for the USD eligibility for Titl se of this financ o such aid. Thi	ed by business and OE of a 37.5 to 1 le IV federal funds ial assistance for s increase in clocas ensure this pro	d industry in clock to cre s. Our stakel our students k hours will	order to meet the dit hour ratio in of holders realize the and wish to elimprovide students	determining ne minate any	
IMPLEMENTA	TION DATE (Se	emester and Year)	Fall 201	7		
SITE(S) OF N	EW PROGRAM	OR CURRICULUM	I MODIFICAT	TION		
☐ Main Camp	ous	☐ All Campuses		Sites (list below)		
Site 1:Shrever	ort					
Site 2:						
Site 3						
Site 4:						
LOUISIANA W	ORKFORCE CO	OMMISSION STAF	R LEVEL (http	o://www.laworks.n	et/Stars/)	
	☐ 4 Star				Star	
PLAN FOR PF	OVIDING QUAI	LIFIED FACULTY	(Check all tha	it apply)		
☐ Use Existing Faculty #: #: #:		aculty	Culty Hire Full-Time Faculty #:			
MINIMUM CRE	DENTIALS RE	QUIRED FOR FAC	ULTY			
Education:		Experience:4 years industry		Certification:		
ANTICIPATED	ENROLLMENT	M 6 39				
Students	Year One	Year Two	Year Three	Year Four	Year Five	

ANTICIPATED	ENROLLME	NT:				
DAY						
EVENING						
Describe Proce Attaining & Estimating Enrollment:	ess for					
PROGRAM AC	CREDITATIO	N:				
Is Program Ac	creditation,	Yes		⊠ No		
Licensure or 0 Required?		If YES, please accreditation/l	If YES, please provide projected accreditation/licensure/certification date:			
Type/Name of Program Accreditation, Licensure or Certification Required:						
		ON COSTS (Includ		***	es, etc.)	
PROGRAM CU (Use the template NEW curriculum deleted and/or ch	e below or inser with changes a	(SEE ATTAC t separate attachme opropriately noted so	nt: all modifications	s should include th lear what has bee	e OLD and n added,	
	Danne	Dademio Officer	N	3-20 Date 3-20 Date	D-17	

### Information Technology

### **Program Description & Curriculum**

This program is divided into a basic core and a specialty networking area. The basic core courses of study will prepare individuals to troubleshoot, repair, and maintain computer systems and basic local area network problems. Students will also learn to operate a computer using current operating system software and use current application software for manipulating spreadsheets, databases, and word processing documents.

#### Degrees/Certificates

Technical Diploma (TD)
Certificate of Technical Studies (CTS)
Technical Competency Area (TCA)

Available degrees and certificates may vary at each campus. Check with your local campus for more information.

#### CIP 110901

	Information Technology CURRICULUM			
Course #	Course Title	Lecture/ Lab Hours	Credit Hours	Clock Hours
ORNT 1000	Freshman Seminar	1/0	1	15
INTE 1100	Installation and Troubleshooting, Part I	1/2	3	90
CPTR 1010	Digital Literacy	1/2	3	90
INTE 1110	Installation and Troubleshooting, Part II	1/2	3	90
The second second		omputer Technician	10	285
The TCA - Computer Techn	ician PLUS the following courses comprise the CTS – Networ	k Administrator		
INTE 1200	Operating Systems	1/2	3	90
INTE 2200	Security Plus	1/2	3	115
INTE 2110	Networking Technologies	1/2	3	180
JOBS 2450	Job Seeking Skills	2/0	2	30
	THE RESIDENCE OF THE PARTY OF T	Total ICT Core	21	700
INTE 2010	Introduction to Client/Server Networking	1/2	3	90
INTE 2120	Introduction to Basic Routers	1/2	3	180
	CTS - Net	work Administrator	27	970
INTE 2020	Server Network Infrastructure	1/2	3	90
INTE 2030	Active Directory	1/2	3	90
INTE 2902	Internship	1/2	3	90
INTE 2850	Emerging Technologies	1/2	3	90
INTE 2130	Intermediate Routing and Switching	1/2	3	180
INTE 2140	Wide Area Network Protocols	1/2	3	180
	TD - ICT Computer	Network Specialist	45	1690
	Below are Certificate Exit Levels			
INTE1200	Operating Systems	1/2	3	90
INTE2010	Introduction to Client/Server Networking	1/2	3	90
INTE2020	Server Network Infrastructure	1/2	3	90
INTE2110	Networking Technologies	1/2	3	90
INTE2120	Introduction to Basic Routers	1/2	3	90
	TCA - Sy	stem Administrator	15	450
INTE1100	Installation and Troubleshooting, Part I	1/2	3	90
INTE1110	Installation and Troubleshooting, Part II	1/2	3	90
INTE1200	Operating Systems	1/2	3	90
INTE2110	Networking Technologies	1/2	3	90
INTE2120	Introduction to Basic Routers	1/2	3	90

Revised September 2015

		TCA - LAN Technician	15	450
ORNT 1000	Freshman Seminar	1/0	1	15
INTE 1100	Installation and Troubleshooting, Part I	1/2	3	90
CPTR 1010	Digital Literacy	1/2	3	90
INTE 1110	Installation and Troubleshooting, Part II	1/2	3	90
		- Computer Technician	10	180
INTE2110	Networking Technologies	1/2	3	180
INTE 2120	Introduction to Basic Routers	1/2	3	180
INTE 2130	Intermediate Routing and Switching	1/2	3	180
INTE 2140	Wide Area Network Protocols	1/2	3	180
		a Network Technician	12	720
INTE 1100	Installation and Troubleshooting, Part I	1/2	3	90
INTE 1100	Installation and Troubleshooting, Part II	1/2	3	90
INTE1200	Operating Systems	1/2	3	90
INTE2110	Networking Technologies	1/2	3	-
		em Support Technician	12	180 450
INTE 1100	Installation and Troubleshooting, Part I	1/2	3	90
INTE 1100	Installation and Troubleshooting, Part II	1/2	3	90
INTE 2200	Security Plus	1/2	3	90
INTE1200	Operating Systems	1/2	3	90
INTE2010	Introduction to Client/Server Networking	1/2	3	90
INTE2110	Networking Technologies	1/2	3	
INTE 2120	Introduction to Basic Routers	1/2	3	180
	INTE Computer Elective	1/2	3	90
		etwork Administrator	24	900
INTE 1100	Installation and Troubleshooting, Part I	1/2	3	
INTE 1100	Installation and Troubleshooting, Part II	1/2	3	90
INTE1200	Operating Systems	1/2	3	90
INTE2010	Introduction to Client/Server Networking	1/2	3	90
INTE2020	Server Network Infrastructure	1/2	3	90
	INTE Computer Elective	1/2	3	90
		CTS – System Analyst	18	540
The following courses n	nay NOT be substituted for the above course requirements.	Cio System Allaryse	10	340
INTE2991	Special Projects I	0/1	1	30
INTE2993	Special Projects II	0/1	2	60
INTE2995	Special Projects III	0/2	3	90
INTE2996	Special Projects IV	3/0	3	45
INTE2998	Special Projects V	1/0	1	15
INTE2997	Practicum	0/3	3	135
INTE2999	Cooperative Education	0/3	3	135
CSRV1000	Customer Service	3/0	3	45
KYBD1010	Introductory Keyboarding	3/0	3	45



TYPE OF PROPOSED CHANGE							
☐ New Program		☐ Curriculum Modification					
AWARD LEVEL(S)		1					
Award Level(s):  Associate of Appli Associate of Scient Associate of Arts ( Other Associate D Name:	(A.A.)	<ul> <li>☐ Technical Diploma (T.D.)</li> <li>☐ Technical Competency Area (T.C.A.)</li> <li>☐ Certificate of Technical Studies (C.T.S.)</li> <li>☐ Certificate of Applied Science (C.A.S.)</li> <li>☐ Certificate of General Studies (C.G.S.)</li> </ul>					
NAME OF PROGRAM	(S) and AWARD LEV	EL(S)					
Name: Heavy Constru	ction Vehicle Operator						
CIP:490202	Credit Hours:32	Contact Hours:1205	Award Level:CTS				
Name:							
CIP:	Credit Hours:	Contact Hours:	Award Level:				
Name:							
CIP:	Credit Hours:	Contact Hours:	Award Level:				
Name:	,						
CIP:	Credit Hours:	Award Level:					
DESCRIBE THE PROPOSED CHANGE (For Curriculum Modifications, state previous credit and clock hours, and for Program Termination, state program and all award levels.)  The proposed change is strictly an increase in clock hours. This increase will allow students more time with hands on projects and will produce more experienced and seasoned employees.							

<b>Y</b>						
REASON/JUS four-year univ	TIFICATION FO	R THE PROPOSE ents, industry dem	D CHANGE and, adviso	(Include support ry board informa	such as tion, etc.)	
program e important barriers to	ent for the USD eligibility for Titl e of this finance such aid. Thi	ed by business and OE of a 37.5 to 1 le IV federal funds tial assistance for s increase in clock as ensure this pro	clock to cre . Our stake our students c hours will	dit hour ratio in on the holders realize the sand wish to elicate provide students	determining ne minate any more hands	
IMPLEMENTA	TION DATE (Se	emester and Year)	Fall 201	7		
SITE(S) OF NE	EW PROGRAM	OR CURRICULUM	MODIFICAT	TION		
☐ Main Camp	us	☐ All Campuses		⊠ Sites (list be	ist below)	
Site 1:Camp N	linden					
Site 2:						
Site 3						
Site 4:						
LOUISIANA W	ORKFORCE C	OMMISSION STAR	LEVEL (http	o://www.laworks.n	et/Stars/)	
	☐ 4 Star	***************************************			Star	
PLAN FOR PR	OVIDING QUAI	LIFIED FACULTY (	Check all tha	ut apply)		
☐ Use Existing Faculty #:		☐ Hire Adjunct Faculty #:		☐ Hire Full-Time Faculty #:		
MINIMUM CRE	DENTIALS RE	QUIRED FOR FACI	ULTY	I		
Education:	ducation: Experience: 4 years industry Certification:					
ANTICIPATED	ENROLLMENT	* *				
Students	Year One	Year Two	Year Three	Year Four	Year Five	

ANTICIPATED	ENROLI	MENT	*			200000000000000000000000000000000000000
DAY						
EVENING			***************************************			
Describe Proce Attaining & Estimating Enrollment:	ess for					
PROGRAM AC	CREDIT	ATION:				
Is Program Ac	creditation	on,	Yes		⊠ No	
Licensure or Certification Required?  If YES, please provide projected accreditation/licensure/certification date:						
Type/Name of Accreditation, Certification R	Licensu					
DESCRIBE IM	PLEMEN.	TATION	COSTS (Includ	e Faculty, Facilitie	s, Library Resourc	es, etc.)
This change v	vill NOT	result i	n any additiona	I costs to the c	ollege.	
PROGRAM CU (Use the template NEW curriculum deleted and/or ch	e below or with chang	insert s	(SEE ATTACH eparate attachment opriately noted so	nt; all modifications	s should include th	e OLD and n added,
(	Ollege Ch	chal	Mourw lemic Officer utive Officer		3-20 Date 2-20 Date	0-19

## **Heavy Construction Vehicle Operator**

### **Program Description & Curriculum**

The purpose of the Heavy Construction Vehicle Operator (HCVO) program is to prepare individuals for employment as professional heavy equipment operators and tractor-trailer drivers. The HCVO program is a short-term training course designed to prepare students to enter the heavy construction industry. Program content includes instruction in general construction site safety, operation of diesel powered heavy equipment and tractor trailer rigs, identification of common equipment/vehicle components, defensive driving skills, actual driving on rural, urban and interstate highways, cargo handling, tractor trailer backing and maneuvering, documentation and verification of loads and grades and equipment/vehicle inspections and logging.

#### Degrees/Certificates

Certificate of Technical Studies (CTS)
Technical Competency Area (TCA)
CIP 490202

Available degrees and certificates may vary at each campus. Check with your local campus for more information.

Heavy Construction Vehicle Operator CURRICULUM							
Course #	Course Title	Lecture /Lab Hours	Credit Hours	Clock Hours			
HCVO 1000	Introduction to Construction	1/1	2	45			
HCVO 1010	Construction Safety	1/2	3	75			
HCVO 1011	Forklifts (Certification)	0/1	1	45			
JOBS 2450	Job Seeking Skills	2/0	2	30			
		ore Certification	8	195			
CTDP 1110	Introduction to Commercial Vehicle Operation	3/0	3	45			
CTDP 1120	Federal Motor Carrier Safety Regulations	2/0	2	30			
HCVO 1140	Construction Vehicle Inspection and Basic Skills	0/2	2	90			
CTDP 1211	Commercial Vehicle Operations I	0/2	2	115			
HCVO 1212	Construction Vehicle Operations	0/3	3	160			
	TCA – Construction V	ehicle Operator	12	440			
HCVO 1110	Heavy Equipment Orientation and Safety	0/1	1	45			
HCVO 1111	Basic Operational Techniques	0/1	1	45			
HCVO 1120	Grades Part 1	0/1	1	45			
HCVO 1121	Grades Part 2	0/2	2	75			
HCVO 1130	Introduction to Earth Moving	1/1	2	75			
HCVO 1131	Dump Truck	0/1	1	45			
HCVO 1200	Tractors	0/1	1	60			
HCVO 1210	Rollers	0/1	1	60			
HCVO 1220	Scrapers	0/1	1	60			
HCVO 1230	Loaders	0/1	1	60			
	TCA – Heavy Equip		12	570			
	CTS – Heavy Construction V		32	1205			
HCVO 2991	Special Projects I	0/1	1	30			
HCVO 2993	Special Projects II	0/2	2	60			
HCVO 2995	Special Projects III	0/3	3	90			
HCVO 2996	Special Projects IV	3/0	3	45			
HCVO 2998	Special Projects V	1/0	1	15			



TYPE OF PROPOSED CHANGE							
☐ New Program		□ Curriculum Modification					
AWARD LEVEL(S)							
Award Level(s):  Associate of Appli Associate of Scient Associate of Arts ( Other Associate D Name:	(A.A.)	<ul> <li>☐ Technical Diploma (T.D.)</li> <li>☐ Technical Competency Area (T.C.A.)</li> <li>☐ Certificate of Technical Studies (C.T.S.)</li> <li>☐ Certificate of Applied Science (C.A.S.)</li> <li>☐ Certificate of General Studies (C.G.S.)</li> </ul>					
NAME OF PROGRAM	I(S) and AWARD LEV	EL(S)					
Name: Patient Care T	echnician						
CIP:512601	Credit Hours:24	Contact Hours:900	Award Level:CTS				
Name:							
CIP:	Credit Hours:	Contact Hours:	Award Level:				
Name:			d-				
CIP:	Credit Hours:	Contact Hours:	Award Level:				
Name:							
CIP:	Credit Hours:	Contact Hours:	Award Level:				
DESCRIBE THE PROPOSED CHANGE (For Curriculum Modifications, state previous credit and clock hours, and for Program Termination, state program and all award levels.)  The proposed change is strictly an increase in clock hours. This increase will allow students more time with hands on projects and will produce more experienced and seasoned employees.							

REASON/JUS four-year univ	TIFICATION FO ersity agreeme	R THE PROPOS nts, industry de	SED CHAN	IGE (	Include supportry board informa	such as tion, etc.)
This change requirement program eximportance barriers to	was encourage ent for the USD eligibility for Title e of this finance such aid. This	od by business a OE of a 37.5 to e IV federal fun ial assistance fo s increase in clo	and indus 1 clock to ds. Our s or our stud ock hours	try in cre taket dents will r	order to meet the dit hour ratio in concluders realize the and wish to eliminate the concluders and wish to eliminate the concluders and the for federal full for federal full for federal full full for federal full full for federal full full full for federal full full full for federal full full full full full full for federal full full full full full full full fu	ne determining ne minate any more hands
IMPLEMENTA	TION DATE (Se	mester and Yea	ır) Fall	201	7	
SITE(S) OF NE	W PROGRAM	OR CURRICULU	JM MODIF	ICAT	ION	
☐ Main Camp	us	☐ All Campuse	es		Sites (list below)	
Site 1:Mansfie	ld	Site	Site 5: Natchitoches			
Site 2:Minden				***************************************		
Site 3: Sabine	Valley		***************************************			
Site 4:Shrevep	ort					
LOUISIANA W	ORKFORCE CO	OMMISSION ST	AR LEVEL	(http	://www.laworks.n	et/Stars/)
☐ 5 Stars ☐ 4 Stars ☐ 2 Stars ☐ 1 Star						
PLAN FOR PR	OVIDING QUAL	IFIED FACULT	Y (Check a	ıli tha	t apply)	
		☐ Hire Adjunct Faculty #:		☐ Hire Full-Time Faculty #:		
MINIMUM CRE	DENTIALS REC	QUIRED FOR FA	CULTY		**************************************	
Education:	Education: Experience:4 years industry Certification:					
ANTICIPATED	ENROLLMENT	* *				
Students	Year One	Year Two	Year Th	ree	Year Four	Year Five

ANTICIPATED ENROLLMENT:							
DAY							
EVENING							
Describe Proce Attaining & Estimating Enrollment:	ess for						
PROGRAM AC	CREDIT	ATION:					
Is Program Ac			Yes		⊠ No		
Licensure or C Required?				provide projecte censure/certifical			
Type/Name of Accreditation, Certification R	Licensu						
DESCRIBE IMPLEMENTATION COSTS (Include Faculty, Facilities, Library Resources, etc.)  This change will NOT result in any additional costs to the college.							
PROGRAM CURRICULUM (SEE ATTACHED)  (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)							
SIGNATURES:  Signature Mounu  College Chief Academic Officer  College Chief Executive Officer  Date  3-20-17  Date							

## Patient Care Technician (PCT)

#### **Program Description & Curriculum**

This program prepares individuals for a variety of job opportunities in the health occupations areas and is generated to meet the need for cross training of employees in health care facilities. Graduates may find employment in long-term care facilities, hospitals, laboratories, and clinics where basic bedside nursing skills are required, as well as the skills of phlebotomy, performing electrocardiograms (EKG), stress testing, and other monitoring procedures.

#### Degrees/Certificates

Certificate of Technical Studies (CTS) Technical Competency Area (TCA)

Available degrees and certificates may vary at each campus. Check with your local campus for more information.

CIP 512601

	Patient Care Technician CURRICULUM			
Course #	Course Title	Lecture/ Lab Hours	Credit Hours	Clock Hours
HNUR 1211	Nursing Fundamentals I	3/1	4	75
HCOR 1212	Skills Application	0/1	1	80
	TCA -	Nurse Assistant	5	155
CPTR 1000	Introduction to Computers	1/1	2	45
HCOR 1200	Introduction to Anatomy & Physiology (with medical terminology)	3/0	3	130
HEKG 1113	EKG	2/0	2	160
		CA – EKG Skills	7	335
HCOR 1601	Communication Techniques in Healthcare	2/1	3	130
HPHL 1013	Phlebotomy	3/1	4	280
HCOR 1801	Professional Aspects for Healthcare Providers	1/1	2	130
		lebotomy Skills	9	540
BOTH 1210	Administrative Procedures for Medical Offices	3/0	3	45
		are Technician	24	900
	t be substituted for required courses above		and the same	
CSRV 1000	Customer Service	3/0	3	45
CSRV 2000	Customer Service and Sales	3/0	3	45
ENTP 1000	Foundations of Entrepreneurship	3/0	3	45
HCOR 2991	Special Projects I	0/1	1	30
HCOR 2993	Special Projects II	0/2	2	60
HCOR 2995	Special Projects III	0/3	3	90
HCOR 2996	Special Projects IV	3/0	3	45
HCOR 2997	Special Projects V	1/0	1	15
	roll in the following elective courses based on COMPASS or ACT	scores.		3 5 30
AHSC 1000	Allied Health Science	2/1	3	60
AHMA 1000	Allied Health Math	2/1	3	60
AHRE 1000	Allied Health Reading	2/1	3	60
AHEN 1000	Allied Health English	2/1	3	60

Revised March 2014 Patient Care Technician



TYPE OF PROPOSED CHANGE							
☐ New Program		☐ Curriculum Modification					
AWARD LEVEL(S)							
Award Level(s):  Associate of Applic Associate of Scient Associate of Arts ( Other Associate D Name:	A.A.)	<ul> <li>☐ Technical Diploma (T.D.)</li> <li>☐ Technical Competency Area (T.C.A.)</li> <li>☐ Certificate of Technical Studies (C.T.S.)</li> <li>☐ Certificate of Applied Science (C.A.S.)</li> <li>☐ Certificate of General Studies (C.G.S.)</li> </ul>					
NAME OF PROGRAM	I(S) and AWARD LEV	EL(S)					
Name: Heavy Constru	ction Vehicle Operator						
CIP:490202	Credit Hours:32	Contact Hours:1205	Award Level:CTS				
Name:							
CIP:	Credit Hours:	Contact Hours:	Award Level:				
Name:							
CIP:	Credit Hours:	Contact Hours:	Award Level:				
Name:							
CIP:	Credit Hours:	Contact Hours:	Award Level:				
DESCRIBE THE PROPOSED CHANGE (For Curriculum Modifications, state previous credit and clock hours, and for Program Termination, state program and all award levels.)  The proposed change is strictly an increase in clock hours. This increase will allow students more time with hands on projects and will produce more experienced and seasoned employees.							

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

This change was encouraged by business and industry in order to meet the requirement for the USDOE of a 37.5 to 1 clock to credit hour ratio in determining program eligibility for Title IV federal funds. Our stakeholders realize the importance of this financial assistance for our students and wish to eliminate any barriers to such aid. This increase in clock hours will provide students more hands on opportunities as well as ensure this program is eligible for federal funding.

IMPLEMENTATION DATE (Semester and Year)

Fall 2017