



# LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM

**TO:** Dr. Monty Sullivan  
LCTCS President

**THROUGH:** Dr. René Cintrón *RC*  
Chief Education and Training Officer

**FROM:** Dr. Adrienne Fontenot *AF*  
Director of Adult Learning and Educational Programs

**SUBJECT:** Program Requests at SOWELA Technical Community College

**DATE:** 07/26/2019

**APPROVED**  
*SK* 8/14/19  
LCTCS BOARD OF SUPERVISORS

## FOR BOARD ACTION:

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

### Program Additions

1. Career and Technical Certificate (CTC), Arc Cutter Basic with an IBC in NCCER Core from the National Center for Construction Education and Research (CIP 48.0508) – **5 STARS**

### Program Terminations

2. Technical Competency Area (TCA), Process Technology Trainee (CIP 15.0699) – **5 STARS**
3. Technical Competency Area (TCA), Automatic Transmission & Transaxle Technician (CIP 47.0604) – **4 STARS**
4. Technical Competency Area (TCA), Engine Performance Technician (CIP 47.0604) – **4 STARS**
5. Technical Competency Area (TCA), Engine Repair Technician (CIP 47.0604) – **4 STARS**
6. Technical Competency Area (TCA), Manual Brake & Steering Technician (CIP 47.0604) – **4 STARS**
7. Technical Competency Area (TCA), Manual Drive Train Technician (CIP 47.0604) – **4 STARS**
8. Technical Competency Area (TCA), Aviation Maintenance Helper (CIP 47.0608) – **5 STARS**
9. Technical Competency Area (TCA), Nurse Assistant (CIP 51.2601) – **2 STARS**

*Changing Lives,  
Creating Futures*

Monty Sullivan  
*System President*

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Student Members:  
Samantha Rushlow  
Shanco "Shawn" Williams

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265 South Foster Drive  
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[www.lctcs.edu](http://www.lctcs.edu)



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**10. Technical Competency Area (TCA), Certified Nursing Assistant (CIP 51.3902) – 2**

**STARS**

**Background:** SOWELA Technical Community College is requesting to delete several Technical Competency Areas (TCA) per LCTCS Policy 1.024 and Louisiana Board of Regents' Academic Affairs Policy 2.15. Technical Competency Areas aligned with workforce needs are being combined with Industry Based Certifications (IBC) to maximize student learning and time to completion creating new Career and Technical Certificates (CTC). New CTCs will be proposed in areas of need.

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

**History of Prior Actions:** There is a history of modifying curriculum to meet student and industry needs.

**Benefits to the System:** The changes will ensure curriculum is aligned to industry needs and better able to prepare students for successful entry into the workforce.

Approved for Recommendation to the Board  
Dr. Monty Sullivan

8-14-19

Date

**SOWELA Welding - 03/11/2019**

**TYPE OF PROPOSED CHANGE :** Curriculum Modification

**PROGRAM NAME :** Welding

**AWARD LEVEL(S)**

**For Board of Regents and LCTCS Review:**

**Name:**

**For LCTCS Review:**

Technical Diploma (T.D.)

Certificate of Technical Studies (C.T.S.)

Career and Technical Certificate (C.T.C)

TCA - For Archive Purpose Only

**NAME OF PROGRAM(S) and AWARD LEVEL(S)**

**Stars :** 5 Stars

**Name:** Arc Cutting Basic

**Program Delivery Mode:** Standard

**CIP:** 480508

**Credit Hours:** 9.00

**Contact Hours:** 225.00

Career and Technical Certificate (C.T.C)

| IBC: Nccer Core | Issuing Body:   | Course Title:           | Course Prefix: | Course Awarded: | Credits | Number: IBC Awarded upon Completion? : Yes |
|-----------------|---|-------------------------|----------------|-----------------|---------|--|
|                 | National Center for Construction Education and Research | Cutting Process CAC/PAC | WELD           | 1310            | 1.00    |  |

**PROPOSED CHANGE**

a) For New Programs, state the purpose and objective; b) For Curriculum Modifications, state previous credit and clock hours; c) For Program Termination, state program and all award levels; d) For Curriculum Adoption, state the college from which curriculum is being adopted and the date it was approved by LCTCS.

We propose adding a CTC where there was once a TCA. There is an embedded IBC (NCCER Core). There are no changes to credit hours, clock hours, etc.

**IMPLEMENTATION DATE (Semester and Year)**

Fall 2019

**HISTORY OF PRIOR ACTIONS**

Provide an overview of changes to this program.

N/A

**JUSTIFICATION FOR THE PROPOSED CHANGE**

Include support such as four-year university agreements, industry demand, advisory board information, etc.

This change provides an industry-accepted IBC (NCCER Core) to the exit point. This IBC will benefit the students with job placement upon program completion.

**SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION:** All Campuses

**QUALIFIED FACULTY (Check all that apply)**

|   |  |  |
|---|--|--|
| <b>Use Existing Faculty: No</b><br># - Full Time: 4<br># - Part Time: 1 | <b>Hire Adjunct Faculty: No</b><br># - 0 | <b>Hire Full-Time Faculty: No</b><br># - 0 |
|---|--|--|

**ADMINISTRATION and IMPLEMENTATION COSTS**

**Department :**

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

|                  |                         |                            |
|------------------|-------------------------|----------------------------|
| <b>Faculty :</b> | <b>Facilities :</b>     | <b>Library Resources :</b> |
| <b>Support :</b> | <b>Related Fields :</b> | <b>Other :</b>             |

**MINIMUM CREDENTIALS REQUIRED FOR FACULTY**

|                   |                    |                       |
|-------------------|--------------------|-----------------------|
| <b>Education:</b> | <b>Experience:</b> | <b>Certification:</b> |
|-------------------|--------------------|-----------------------|

**FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS**

**Department :**

**Describe how this change will affect the administrative structure and/or allocation of departmental funds in terms of faculty, facilities, support, and any other resources.**

There is no impact by adding this CTC as the courses and faculty already exist.

**ANTICIPATED ENROLLMENT:**

| Students           | Year One | Year Two | Year Three | Year Four | Year Five |
|--------------------|----------|----------|------------|-----------|-----------|
| DAY                | 115      | 125      | 125        | 125       | 125       |
| EVENING            |          |          |            |           |           |
| DISTANCE EDUCATION |          |          |            |           |           |

Describe Process for Attaining &amp; Estimating Enrollment:

Capacity = 125 students

**PROGRAM ACCREDITATION:**

Is Program Accreditation, Licensure or Certification Required?

No

Accreditation status:

N/A

Type/Name of Program Accreditation, Licensure or Certification Required:

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

Use the template below or insert separate attachment. All modifications should include the OLD and NEW curriculum with changes appropriately noted so that it is visually clear what has been added, deleted and/or changed. Note if any special requirements, such as internships, are part of the curriculum. List all embedded IBCs. If you are adopting curriculum, you do not need to complete this section.

| Subject Code | Course Number | Course Title | Lecture Hours | Lab Hours | Contact Hours | Credit Hours | Clinical Hours |
|--------------|---------------|--------------|---------------|-----------|---------------|--------------|----------------|
|              |               |              |               |           |               |              |                |

Program, Degree or Concentration:

Credit Hours: 0.00

**BENEFITS TO THE SYSTEM**

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

By adding the CTC with the included IBC (NCCER Core), students will earn a credential that is accepted and recognized by industry nationwide, giving them greater access to the workforce.

**KEYWORDS**

## WELDING

**School:** Transportation and Applied Technology

**Program Description:** The purpose of the Welding program is to prepare individuals for employment in the field of welding. Instruction is provided in various processes and techniques of welding including oxy-fuel 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. After completion of this program, the student will have covered the skills designated by the American Welding Society (AWS) and will be prepared to take the AWS Entry Level Welder Test.

**Dean:** Mr. William Mayo

**Program Coordinator:** Jonathan Darbonne

**Program Instructors:** Jonathan Darbonne, Heather Zappa-Guillory (Morgan Smith Site), Devin Richard, Eric Richmond (Morgan Smith Site), Kyle Vidrine (Oakdale Site).

**Special Comments:** A minimum grade of C is required in all Welding major-specific courses. This program is also offered at the Morgan Smith Site.

**Overall Grade Point Average:** Program requirements must be completed with an overall grade point average of 2.0 in order to receive a diploma or certificate.

**Student Learning Outcomes:** Students who successfully complete the Welding program will be able to:

- Demonstrate fundamental proficiencies in the use of hand tools, portable, and power equipment.
- Analyze drawings and specifications related to welding problems and jobs.
- Perform a 2F, 3F, and 4F position fillet weld using 3/32-7018 and 1/8-6010+electrodes.
- Perform a shielded metal arc welding 6G uphill pipe weld using 3/32-7018 and 1/8-6010+electrodes.
- Perform a gas tungsten arc welding 6G pipe weld using ER70s-6 filler metal.
- Demonstrate knowledge of safety procedures, hazards, housekeeping, and appropriate cautions in the welding industry.

| WELDING<br><i>Diploma/Certificate Option</i> |  |         |     |                  |
|--|--|---------|-----|------------------|
| Course No.                                   | Course Title                               | Lecture | Lab | Total Credit Hrs |
| WELD 1110                                    | Occupational Orientation & Safety          | 1       | 1   | 2                |
| WELD 1120                                    | Basic Blueprint, Metallurgy & Weld Symbols | 1       | 1   | 2                |
| WELD 1130                                    | Welding Inspection and Testing             | 1       | 1   | 2                |
| WELD 1210                                    | Oxyfuel Systems                            | 1       | 1   | 2                |
| WELD 1310                                    | Cutting Processes CAC/PAC                  | 0       | 1   | 1                |
|  | <b>CTC - Arc Cutter Basic (9)</b>          |         |     | <b>9</b>         |
| WELD 1410                                    | SMAW - Basic Beads                         | 1       | 1   | 2                |

|                              |   |   |   |           |
|------------------------------|---|---|---|-----------|
| WELD 1411                    | SMAW - Fillet Weld  | 0 | 2 | 2         |
| WELD 1420                    | SMAW - V-Groove Open  | 1 | 3 | 4         |
| WELD 1510                    | SMAW - Pipe 2G  | 1 | 2 | 3         |
| WELD 1514                    | SMAW - 5G Downhill  | 1 | 2 | 3         |
|                              | <b>CTS - SMAW Structural Welder (23)</b>                    |   |   | <b>14</b> |
| WELD 1515                    | SMAW - 6G Downhill  | 0 | 2 | 2         |
| WELD 1516                    | SMAW - 5G Uphill  | 0 | 4 | 4         |
| WELD 1517                    | SMAW - 6G Uphill  | 0 | 3 | 3         |
|                              | <b>CTS - SMAW Pipe Welder (32)</b>                          |   |   | <b>9</b>  |
| WELD 2210                    | GTAW - Multi-Joint  | 1 | 2 | 3         |
| WELD 2220                    | GTAW - Pipe 5G  | 1 | 3 | 4         |
| WELD 2221                    | GTAW - Pipe 2G  | 0 | 3 | 3         |
| WELD 2222                    | GTAW - Pipe 6G  | 0 | 2 | 2         |
| WELD 2230                    | GTAW - Aluminum Multi-Joint                                 | 1 | 1 | 2         |
|                              | <b>CTS - SMAW, GTAW Combination Welder (46)</b>             |   |   | <b>14</b> |
| WELD 2310                    | GMAW - Basic Fillet Weld                                    | 1 | 1 | 2         |
| WELD 2311                    | GMAW - Groove Weld  | 0 | 2 | 2         |
| WELD 2110                    | FCAW - Basic Fillet Welds                                   | 1 | 1 | 2         |
| WELD 2111                    | FCAW - Groove Welds   | 0 | 1 | 1         |
|                              | <b>CTS - SMAW, GTAW, GMAW, FCAW Combination Welder (53)</b> |   |   | <b>7</b>  |
| WELD 2312                    | Basic Pipe & Structural Fabrication                         | 1 | 2 | 3         |
|                              | <b>TD - Welding (56)</b>                                    |   |   | <b>8</b>  |
| <b>CIP Code: 480508</b>      |   |   |   |           |
| <b>Total Clock Hrs: 1803</b> |   |   |   |           |

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| <b>WELDING</b>                    |  |                |            |                         |
|-----------------------------------|--|----------------|------------|-------------------------|
| <i>Diploma/Certificate Option</i> |  |                |            |                         |
| <b>Course No.</b>                 | <b>Course Title</b>                        | <b>Lecture</b> | <b>Lab</b> | <b>Total Credit Hrs</b> |
| WELD 1110                         | Occupational Orientation & Safety          | 1              | 1          | 2                       |
| WELD 1120                         | Basic Blueprint, Metallurgy & Weld Symbols | 1              | 1          | 2                       |
| WELD 1130                         | Welding Inspection and Testing             | 1              | 1          | 2                       |
| WELD 1210                         | Oxyfuel Systems                            | 1              | 1          | 2                       |
| WELD 1310                         | Cutting Processes CAC/PAC                  | 0              | 1          | 1                       |
|                                   | <b>TCA - Arc Cutter Basic (9)</b>          |                |            | <b>9</b>                |
| WELD 1410                         | SMAW - Basic Beads                         | 1              | 1          | 2                       |
| WELD 1411                         | SMAW - Fillet Weld                         | 0              | 2          | 2                       |



|                              |   |   |   |           |
|------------------------------|---|---|---|-----------|
| WELD 1420                    | SMAW - V-Groove Open  | 1 | 3 | 4         |
| WELD 1510                    | SMAW - Pipe 2G  | 1 | 2 | 3         |
| WELD 1514                    | SMAW - 5G Downhill  | 1 | 2 | 3         |
|                              | <b>CTS - SMAW Structural Welder (23)</b>                    |   |   | <b>14</b> |
| WELD 1515                    | SMAW - 6G Downhill  | 0 | 2 | 2         |
| WELD 1516                    | SMAW - 5G Uphill  | 0 | 4 | 4         |
| WELD 1517                    | SMAW - 6G Uphill  | 0 | 3 | 3         |
|                              | <b>CTS - SMAW Pipe Welder (32)</b>                          |   |   | <b>9</b>  |
| WELD 2210                    | GTAW - Multi-Joint  | 1 | 2 | 3         |
| WELD 2220                    | GTAW - Pipe 5G  | 1 | 3 | 4         |
| WELD 2221                    | GTAW - Pipe 2G  | 0 | 3 | 3         |
| WELD 2222                    | GTAW - Pipe 6G  | 0 | 2 | 2         |
| WELD 2230                    | GTAW - Aluminum Multi-Joint                                 | 1 | 1 | 2         |
|                              | <b>CTS - SMAW, GTAW Combination Welder (46)</b>             |   |   | <b>14</b> |
| WELD 2310                    | GMAW - Basic Fillet Weld                                    | 1 | 1 | 2         |
| WELD 2311                    | GMAW - Groove Weld  | 0 | 2 | 2         |
| WELD 2110                    | FCAW - Basic Fillet Welds                                   | 1 | 1 | 2         |
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|                              | <b>CTS - SMAW, GTAW, GMAW, FCAW Combination Welder (53)</b> |   |   | <b>7</b>  |
| WELD 2312                    | Basic Pipe & Structural Fabrication                         | 1 | 2 | 3         |
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