

**ARTICULATION AGREEMENT  
HILLSBOROUGH COUNTY PROGRAMS OF STUDY PARTNERSHIP**

*Plumbing Technology Program (HTC)*  
And  
*Associate in Science in  
Industrial Management Technology Program (HCC)*

In a continuing effort to serve the needs of students in Career Certificate Programs, **Hillsborough Community College** enters into this agreement with **The School Board of Hillsborough County, Florida**, to award college credit toward an **Associate in Science** degree in *Industrial Management Technology (AS.INDM)* to completers of Hillsborough Technical Colleges' *Plumbing Technology Program (I460513)* as delineated below:

PSAV Career Certificate Program <i>Hillsborough Technical Colleges</i> School District of Hillsborough County, Florida			Postsecondary Institution: <i>Hillsborough Community College</i>		
Program/Courses	Clock Hours	PSAV Course Numbers	Course Code	Course Name	Awarded Credits
Helper, Plumber, Pipefitter	360	BCV0508	ETI2941	Industrial Management Practicum	30
Residential Plumber	240	BCV0540			
Commercial Plumber	240	BCV0562			
Plumber	120	BCV0592			
<b>Total Clock Hours</b>	<b>960</b>			<b>Total credits</b>	<b>30</b>

This agreement makes it possible to award **30** articulated credits to a student who has completed the stated Hillsborough Technical Colleges' Career Certificate Program if the student meets the following criteria:

- Enroll in the *Industrial Management Technology* Program seeking the Industrial Management Technology Degree;
- Request articulation within three years of PSAV completion date;
- Furnish official copy of PSAV transcript indicating *Plumbing Technology* program completion;
- Satisfactorily complete the PSAV program with a B or better in the program courses;

AND

Hillsborough Technical Colleges has complied with the following provisions:

- Hillsborough Technical Colleges agrees to provide to the Industrial Management Technology Program Manager copies of the course syllabi and a copy of the Program Guide for each of the Articulated Courses upon updates in course curriculum:

BCV0508, Helper, Plumber, Pipefitter  
BCV0540, Residential Plumber  
BCV0562, Commercial Plumber  
BCV0592, Plumber

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CAREER, TECHNICAL and ADULT EDUCATION**

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- Hillsborough Technical Colleges agree to meet the teaching objectives for each of the credited courses that Hillsborough Community College does for:

ETI2941, Industrial Management Practicum

- Hillsborough Technical Colleges agree to use the following textbooks for the Articulated Courses and not to change textbooks without the prior written permission of the Industrial Management Technology Program Manager:

Mathematics for Plumbers and Pipefitters, 8<sup>th</sup> ed., 9781111642600  
Plumbing 101, 6<sup>th</sup> ed., 9781133281535  
Plumbing 201, 6<sup>th</sup> ed., 9781305401648  
Plumbing 301, 2<sup>nd</sup> ed., 9781337391764  
Plumbing 401, 1<sup>st</sup> ed., 9781418065362

The articulating agency will annually review the contents of the curriculum and the qualifications of teachers employed by Hillsborough County Public Schools. The purpose of the review is to verify that competencies are being taught and are equivalent to the postsecondary institution's course(s) which has been designated as equivalent and for which college credit is being offered.


This articulation agreement for the 30 credit(s) toward the *Hillsborough Community College Industrial Management Technology Degree* is effective upon final signature of both institutions' representatives, and will be reviewed five years from this date. This agreement may be terminated by either party upon 60 days written notice.

Signatures below indicate endorsement and attestation of this agreement.

**Hillsborough Community College**

**The School Board of Hillsborough County,  
Florida**

I hereby endorse the above articulation agreement:

By:   
Betty Viamontes, Chair, Board of Trustees

Date: \_\_\_\_\_

By:   
TAMARA SHAMBURGER  
School Board Chair

Date: OCT 15 2019

I hereby attest the above articulation agreement:

By:   
Dr. Kenneth Atwater, President

By:   
Richard Senker, VP of Academic Affairs

Date: 7/22/19

By:   
Jeff Eakins, Superintendent

Date: OCT 15 2019

APPROVED AS TO FORM & LEGALITY

  
GENERAL COUNSEL

HILLSBOROUGH COUNTY PUBLIC SCHOOLS  
CAREER, TECHNICAL and ADULT EDUCATION

**Industry Certification/Credential/PSAV to AS Industrial Management  
Credit Articulation Identification Form**

**AS Degree Name:** Industrial Management Technology      **CIP Number:** 1652020501

**Industry Certification/Credential/PSAV:** Plumbing Technology

**College Credit:** According to State of Florida's Curriculum Frameworks (<http://www.fldoe.org/academics/career-adult-edu/career-tech-edu/curriculum-frameworks/2017-18-frameworks/manufacturing.shtml>), the purpose of the AS Degree in Industrial Management Technology is to:

*...offer a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the manufacturing career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the manufacturing career cluster.*

The State Curriculum Framework goes on in the *Special Notes* section to state:

*Students may provide valid evidence of technical or industrial competencies as specified in the curriculum frameworks of an accredited postsecondary adult or postsecondary vocational institution. Students may also provide valid evidence of acquired skills through portfolios, documented work history, and registered apprenticeship programs that meet program outcomes as determined by the college.*

*Industrial elective credits may also be awarded based on the type of program, length of program, certifications or licenses awarded under articulation agreements between PSAV program schools and/or industrial/technical license articulation agreements.*

*Industrial elective credits may also be satisfied by the completion of special courses and certificate programs offered by the college specified in the elective section of the college's degree plan.*

The purpose of this form is to document the validation of acceptable forms of evidence of the students' *technical or industrial competencies* and/or *acquired skills* that meet program outcomes.

The number of college credits awarded by the articulation agreement is determined by HCC faculty's assessment of the certification/credential/PSAV. A minimum of 30 clock hours of training or work experience will be required for every college credit awarded to a maximum of 30 credit hours. The 30 to 1 clock hour conversion is based on the guidelines for state reporting and FLDOE unit definition of a clock hour.

**Validation Mechanism:** To be eligible for articulation, the student must show evidence of their current **Plumbing Technology** certification/credential and it must have been issued within three (3) years prior to their enrollment in the program.

**Rationale/Justification:** **Plumbing Technology** certification represents industry acknowledgement of technical skill attainment of competencies in the AS in Industrial Management Technology program. HCC faculty reviewed the following:


- State Curriculum Frameworks
- Course Syllabi
- Course Exams
- Course Scope and Sequence
- Textbooks/Course Materials
- Other \_\_\_\_\_

The **Plumbing Technology** certification/credential will serve as equivalent substitutions for the HCC courses identified below.

Post-Secondary Adult Vocational/Apprenticeship/Corporate Training Program			Post-Secondary Institution: Hillsborough Community College		
Program/Courses	Clock Hours	PSAV Course Numbers	Course Code	Course Name	Awarded Credits
Helper, Plumber, Pipefitter	360	BCV0508	ETI 2941	Industrial Mang. Practicum	30
Residential Plumber	240	BCV0540			
Commercial Plumber	240	BCV0562			
Plumber	120	BCV0592			
Total Clock Hours	960			Total credits	30

Total Credits Awarded for the courses listed above is 30.

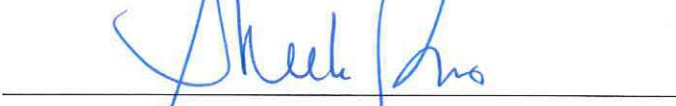
**Signatures**

  
Signature Department Chair, Engineering Technology


2/5/19  
Date

  
Signature Department Chair, Industrial Management


2/5/19  
Date

  
Signature Dean

2/5/19  
Date

  
Signature Director, Associate in Science Programs

2/5/19  
Date

  
Signature Vice President, Academic Affairs

2/8/19  
Date

  
Director, HCPS Workforce & Continuing Ed.

4/8/19  
Date