

**Tech Express Articulation Agreement  
Between  
VALENCIA COLLEGE**

**A.S. degree in Energy Management and Controls Technology  
and**

**THE SCHOOL BOARD OF ORANGE COUNTY, FLORIDA O/B/O  
ORANGE TECHNICAL COLLEGE**

**Air Conditioning, Refrigeration & Heating Technology Apprenticeship  
Heating, Ventilation, Air Conditioning/Refrigeration (HVAC/R)  
Electricity  
Electrical Apprenticeship  
Electronic Systems Integration and Automation  
Mechatronics**

In a continuing effort to provide career ladder opportunities for students in career and technical education programs, Valencia College agrees to extend full college credit at no cost to eligible students who have completed one of the following articulated programs at Orange Technical College and met all of the requirements.

**COURSE EQUIVALENCY IN SPECIALIZED COURSES**

**ORANGE TECHNICAL COLLEGE**

**VALENCIA COLLEGE PROGRAM**

**Heating, Ventilation, AC/Refrigeration  
(HVAC/R) 1 (750) & 2 (600) - 1350 Total**

**Energy Management & Controls Technology A.S.  
(12 + 9 for total of 21 credits - based on Track)**

**HVAC/R 1** (750 hours)

**(12 credits)**

ETM 2943 Energy Management and Controls  
Technology Practicum (12 credits)

**HVAC/R 2 - Advanced Commercial  
& Industrial Service Practices Track**  
(600 hours)

**(Additional 9 credits)**

ETM 2943 Energy Management and Controls  
Technology Practicum (3 credits)  
ETM 1600C (3 credits)  
ETM 1601C (3 credits)

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**ORANGE TECHNICAL COLLEGE**

**VALENCIA COLLEGE PROGRAM**

**A/C, Refrigeration & Heating  
Technology Apprenticeship**

**Energy Management & Controls Technology A.S.  
Degree (21 credits)**

**Mid Florida:** Sponsor: OPP JATC  
(10,000 hours – five years)

ETM 2943 Energy Management and Controls  
Technology Practicum (15 credits)

**Westside:** (Sponsor: ACCA/CF)  
(6,000 hours – three years)

ETM 1600C (3 credits)  
ETM 1601C (3 credits)

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**ORANGE TECHNICAL COLLEGE**

**VALENCIA COLLEGE PROGRAM**

**Electricity**  
(1200 Hours)

**Energy Management & Controls Technology A.S.  
Degree**

ETM 2943 Energy Management and Controls  
Technology Practicum (9 credits)

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**Electrical  
Apprenticeship**

**Energy Management & Controls Technology A.S.  
Degree**

**MF/WS/WP:** Sponsor: FEAT  
(8,000 hours – four years)

ETM 2943 Energy Management and Controls  
Technology Practicum (12 credits)

**Mid Florida:** (Sponsor: CFE JATC)  
(8,000 hours – four years)

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**ORANGE TECHNICAL COLLEGE**

**VALENCIA COLLEGE PROGRAM**

**Mechatronics**  
(1500 Hours)

**Energy Management & Controls Technology A.S.  
Degree**

ETM 2943 Energy Management and Controls  
Technology Practicum (12 credits)

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**ORANGE TECHNICAL COLLEGE**

**VALENCIA COLLEGE PROGRAM**

**Electronic Systems Integration  
and Automation** (750 Hours)

**Energy Management & Controls Technology A.S.  
Degree**

ETM 2943 Energy Management and Controls  
Technology Practicum (9 credits)

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**MAXIMUM AWARD OF CREDIT**

This agreement makes it possible for a student to receive up to twenty-one (21) semester hours of college credit for the Orange Technical College (OTC) programs specified above towards the Energy Management and Controls Technology A.S. degree program at Valencia College, which is in accordance with commonly accepted good practice in higher education.

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**ASSESSMENT AND COURSE EQUIVALENCY**

Valencia and Orange Technical College faculty and staff with responsibility for supervision and coordination of the articulated programs have reviewed and assessed the program curriculum for alignment of learning outcomes and determined that the learning outcomes, performance standards, and assessment procedures meet the college standards for college credit course work.

The following materials were reviewed to align the program learning outcomes and determine the equivalency of the content and course work to be articulated: *(curriculum frameworks, samples of instructional materials, syllabi with learning outcomes, various assignments and assessments, and textbooks)*.

**VALIDATION MECHANISM**

The validation mechanism for awarding college credit is based on the following student assessments that are identified for each articulated program: *(portfolio review, special projects, performance-based, industry certifications/licensure, written assessments skills inventory assessments or a combination)*.

**TRANSFERRING PROCESS**

To receive college credit for the articulated programs completed at Orange Technical College, transferring students must meet the following requirements:

1. Meet with the Tech Express Coach as part of the Exit process for graduation from Orange Technical College to review and prepare documentation for transition to Valencia College.
2. Apply for admission to Valencia College and meet the College entrance requirements (Tech Express Coaches can assist students with this process).
3. Submit a completed Valencia College application for admission, satisfy the requirements for Degree-Seeking Status, including submission of all official transcripts, and declare a major in the articulated program.
4. Be accepted into Valencia within three years of completing the Orange Technical College program. *(If it's been longer than 3 years, an exception will be considered if the student can demonstrate they have current industry knowledge (i.e. through an employer letter, etc.)*
5. Complete orientation and comply with the appropriate placement, course prerequisites and requirements of the college.
6. Following enrollment at the college, student must meet with the Valencia Student Success Coach to review and verify all of the required documentation that has been submitted, and determine eligibility. *(Students must submit their official transcripts verifying completion of the articulated program, as well as all of the documentation that is required for evaluation of their assessment(s) identified below before the college credit can be awarded).*

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**Required Student Assessments:**

**Heating, Ventilation, Air Conditioning/Refrigeration program**

Provide a current and valid copy of the required industry certification listed below:

- EPA 608 Universal Certification

**A/C, Refrigeration and Heating Technology - Apprenticeships**

- Provide HVAC Apprenticeship certificate of completion **AND** a letter from employer validating the student has commercial HVAC training/work experience.

**Electricity program**

Provide a current and valid copy of the required industry certifications listed below:

- NCCER Core Curriculum Certification
- NCCER for Electricity Level I Certification

**Electronic Systems Integration and Automation program**

Provide a current and valid copy of the required industry certifications listed below:

- ESPA Electronic Systems Technician (EST) Certification
- CEDIA Electronic Systems Certified (ESC)

**Electrical - Apprenticeships**

- Provide Electrical Apprenticeship certificate of completion.

**Mechatronics program**

Provide a current and valid copy of the required certification listed below:

- MSSC - Certified Production Technician (CPT)

7. After verifying the required documentation and evaluating the approved assessments(s), the Valencia Student Success Coach or Program Chair for the articulated program will determine eligibility, and notify the Registrar's Office of acceptable credit to be awarded. *(Credit will be awarded after the drop/add date, and the evaluation process has been completed).*

**TERMS OF AGREEMENT**

This agreement will be reviewed on an ongoing basis to ensure that it remains current and up-to-date. The Valencia Tech Express Coaches will work collaboratively with the Orange Technical College and Valencia College faculty and staff to stay informed of any curriculum/program changes that may impact this agreement and require it to be modified or terminated. If it is determined that an agreement needs to be modified or terminated due to program changes, both institutions will be notified accordingly.