

**Articulation Agreement**

**Between**

**NJ's 19 Community Colleges**

**And**

**United Association of the Journeymen and Apprentices of the Plumbing and Pipefitting Industry**

This articulation agreement specifies the requirements and conditions for qualified students to complete the Technical Studies Associate in Applied Science degree at NJ County Colleges.

Upon official presentation of completion of an United Association of the Journeymen and Apprentices of the Plumbing and Pipefitting Industry Apprenticeship Training Program, students will be automatically accepted into the NJ County Colleges' Technical Studies Associate in Applied Science Program.

Attached to this agreement is the Transfer Course Agreement. The Transfer Course Agreement lists the manner in which the apprenticeship program translates into NJ County College equivalent coursework or Technical Studies credits. It should be noted that qualified students in any United Association of the Journeymen and Apprentices of the Plumbing and Pipefitting Industry Apprenticeship Program in New Jersey can complete the degree requirements at any county college in New Jersey thus waiving the residency requirements of each college. NJ State requires that all students pursuing an Associate in Applied Science degree complete a minimum of 21 general education credits. Additional credits from apprenticeship training may be credited towards either the career electives or general education portion of the AAS degree. This credit application will be determined in accordance with the apprenticeship training completed and the degree program pursued. Further, excess credits not applied from the ACE evaluation may be applied to a Bachelors Degree program at a participating baccalaureate institution.

These documents will be revisited annually to reflect curriculum changes by NJ County Colleges and/or curriculum changes of United Association of the Journeymen and Apprentices of the Plumbing and Pipefitting Industry's Apprenticeship Program.

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For NJ's 19 Community Colleges

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Catherine Merkel, Registrar  
United Association of Journeymen and Apprentices  
of the Plumbing and Pipefitting Industry

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

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

## Transfer Course Agreement

### NJ County Colleges

#### Associate in Applied Science in Technical Studies

#### Courses/Credits for United Association of the Journeymen and Apprentices of the Plumbing and Pipefitting Industry

#### General Education 21 credits (Credits must be earned at county colleges or transferred as course equivalents)<sup>A-</sup> minimum

English Composition I	3
English Composition II	3
Mathematics Elective (generally algebra or higher)	3
Science/Lab (generally biology, chemistry, physics)	3-4
Introduction to Computers	3
Humanities Elective	3
Social Science Elective (psychology/sociology)	3

<sup>A-</sup> Note: Some County Colleges may have other requirements for graduation, such as Health/Physical Education.

#### Technical Core 25 credits (Credits assigned in recognition of apprenticeship experience—exact components may differ from college to college)

Technical Core can be transcribed as 25 block transfer credits or as specific course or transfer equivalencies based on ACE review, as determined by each community college (see example).

#### Example Course by Course Listing

TC: Introduction to Safety and Health	1
TC: Math & Trigonometry for Plumbers & Pipefitters	3
TC: Advanced Plan Reading & Related Drawing	3
TC: Oxy-Fuel Cutting & Welding	4
TC: Gas Tungsten Arc Welding	4
TC: Personnel Management in Service Work	2
TC: Project Management in Service Work	2
TC: Backflow Prevention & Cross Connection Control	3
TC: Plumbing Code	3

#### Career Electives 12 credits (Credits must be earned at county colleges or transferred as course equivalents)<sup>B-</sup>

<sup>B-</sup> Additional articulated credits the apprentice may earn through completion of the apprenticeship program will vary depending on the apprenticeship program completed by the apprentice and the associate degree the apprentice pursues.

- Course offerings may vary based on curriculum offered at specific NJ County Colleges.

**60 credits**

- Most county colleges actually require a higher number of General Education requirements. However, if the college's general education requirement is 21, the student would need to make up the missing 2 credits in the Career Electives area in order to reach the minimum of 60 credits for an AAS degree.

## Transfer Course Agreement

### NJ County Colleges

#### Associate in Applied Science in Technical Studies

#### Business Management Concentration

#### Courses/Credits for United Association of the Journeymen and Apprentices of the Plumbing and Pipefitting Industry

<b>General Education</b> <b>(Credits must be earned at county colleges or transferred as course equivalents)<sup>A-</sup></b>	<b>21 credits minimum</b>
English Composition I	3
English Composition II	3
Mathematics Elective (generally algebra or higher)	3
Science/Lab (generally biology, chemistry, physics)	3-4
Introduction to Computers	3
Humanities Elective	3
Social Science Elective (psychology/sociology)	3
<sup>A-</sup> Note: Some County Colleges may have other requirements for graduation, such as Health/Physical Education.	

<b>Technical Core</b> <b>(Credits assigned in recognition of apprenticeship experience—exact components may differ from college to college)</b>	<b>25 credits</b>
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Technical Core can be transcribed as 25 block transfer credits or as specific course or transfer equivalencies based on ACE review, as determined by each community college (see example).

#### Example Course by Course Listing

TC: Introduction to Safety and Health	1
TC: Math & Trigonometry for Plumbers & Pipefitters	3
TC: Advanced Plan Reading & Related Drawing	3
TC: Oxy-Fuel Cutting & Welding	4
TC: Gas Tungsten Arc Welding	4
TC: Personnel Management in Service Work	2
TC: Project Management in Service Work	2
TC: Backflow Prevention & Cross Connection Control	3
TC: Plumbing Code	3

<b>Career Electives</b> <b>(Credits must be earned at county colleges or transferred as course equivalents)<sup>B-</sup></b>	<b>12 credits</b>
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Concentration in Business Management	
- Introduction to Business	3
- Introduction to Management	3
- Additional course offerings in Business Management	6

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- Course offerings may vary based on curriculum offered at specific NJ County Colleges.

- **60 credits**  
Most county colleges actually require a higher number of General Education requirements. However, if the college's general education requirement is 21, the student would need to make up the missing 2 credits in the Career Electives area, in order to reach the minimum of 60 credits for an AAS degree.

## Transfer Course Agreement

### NJ County Colleges

#### Associate in Applied Science in Technical Studies

#### Construction Management Concentration

#### Courses/Credits for United Association of the Journeymen and Apprentices of the Plumbing and Pipefitting Industry

<b>General Education</b> <b>(Credits must be earned at county colleges or transferred as course equivalents)<sup>A-</sup></b>	<b>21 credits</b> <b>minimum</b>
English Composition I	3
English Composition II	3
Mathematics Elective (generally algebra or higher)	3
Science/Lab (generally biology, chemistry, physics)	3-4
Introduction to Computers	3
Humanities Elective	3
Social Science Elective (psychology/sociology)	3
<sup>A-</sup> Note: Some County Colleges may have other requirements for graduation, such as Health/Physical Education.	

<b>Technical Core</b> <b>(Credits assigned in recognition of apprenticeship experience—exact components may differ from college to college)</b>	<b>25 credits</b>
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Technical Core can be transcribed as 25 block transfer credits or as specific course or transfer equivalencies based on ACE review, as determined by each community college (see example).

#### Example Course by Course Listing

TC: Introduction to Safety and Health	1
TC: Math & Trigonometry for Plumbers & Pipefitters	3
TC: Advanced Plan Reading & Related Drawing	3
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TC: Personnel Management in Service Work	2
TC: Project Management in Service Work	2
TC: Backflow Prevention & Cross Connection Control	3
TC: Plumbing Code	3

<b>Career Electives</b> <b>(Credits must be earned at county colleges or transferred as course equivalents)<sup>B-</sup></b>	<b>12 credits</b>
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Selected from Concentration in Construction Management:

- Construction Management I	3
- Construction Management II	3
- Additional course offerings in Business Management/Construction Management	6

<sup>B-</sup> Additional articulated credits the apprentice may earn through completion of the apprenticeship program will vary depending on the apprenticeship program completed by the apprentice and the associate degree the apprentice pursues.

- Course offerings may vary based on curriculum offered at specific NJ County Colleges.

- 60 credits**
- Most county colleges actually require a higher number of General Education requirements. However, if the college's general education requirement is 21, the student would need to make up the missing 2 credits in the Career Electives area, in order to reach the minimum of 60 credits for an AAS degree.