

# **ARTICULATION AGREEMENT**

between

**Roofers & Waterproofers Research and Education Joint  
Trust Fund**

Roofer & Waterproofer Program

and

**Washtenaw Community College**

Associate of Science in Construction Supervision

This agreement is effective as of  
September 1, 2025 and until August 31, 2028.

# ARTICULATION AGREEMENT

between

**Roofers & Waterproofers Research and Education Joint Trust Fund**

Roofer and Waterproofer Program

and

**Washtenaw Community College (WCC)**

Associate of Science in Construction Supervision

## Article I

### Agreement on Principle

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WCC and the union organization agree that students completing the specified program through the union should be able to transfer credits smoothly, avoiding duplication and loss. Therefore, WCC and the union organization agree to enter into this program articulation agreement, thus ensuring that program completers can transfer to Washtenaw's program efficiently, with both parties cooperating as equal partners to maintain their programs' integrity.

## Article II

### Agreement of Program Specifics

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WCC and the union organization agree that any student who has successfully completed the program may transfer the credits as indicated on the attached Articulation Guide toward the specified degree(s) at WCC. The requirements are:

1. Complete the program through the union organization and apply for admission to WCC.
2. Complete the orientation process and qualify for enrollment in 100 and 200 level courses or participate in appropriate preparatory coursework.
3. Submit a copy of one of the following documents to the Student Connection at WCC to receive transfer credit:
  - a. Department of Labor's Office of Apprenticeship (DOL/OA) Certificate of Completion
  - b. Union organization verification of program completion.
4. Complete the WCC academic program and graduation requirements as specified on the Articulation Guide and in the WCC Bulletin.
5. Apply for graduation.

Article III  
Agreement on Communication

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The union organization and WCC agree to cooperate in communicating with each other and with their common and respective publics concerning the established relationship between the two institutions.

Communication may include the development of various kinds of publications to inform those who might benefit personally or professionally from this agreement. Faculty and staff at both institutions will share the information in this agreement with interested and qualified students and both institutions will provide counseling and advising to students and prospective students.

Article IV  
Maintenance and Review Body and Procedures

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At least one administrative or faculty member from each institution will be appointed to act as agents for the implementation of this agreement and to communicate changes to respective faculty members, advisors, counselors, and others to whom the information is pertinent. WCC and the union organization agree to communicate annually any curriculum changes in their respective programs that may affect this articulation agreement and to review the agreement for revision and possible renewal during the third year.

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## *ARTICULATION GUIDE*

<b>Description</b>	<b>Approximate Hours</b>	<b>WCC Credit Hours</b>
<p><b>RFA 110 - Introduction to Roofing Systems and Safety</b> This course provides apprentices with foundational knowledge of the roofing industry, including an overview of roofing materials, tools, equipment, and terminology. Students learn fundamental safety practices including OSHA regulations, fall protection systems, ladder safety, hazard recognition, and emergency response procedures essential for working at heights in commercial and residential roofing applications.</p>	Total Hours: 80	Credit Hours: 6
<p><b>RFA 111 - Single-Ply Roofing Systems</b> Students develop proficiency in the installation, repair, and maintenance of single-ply membrane roofing systems. Topics include thermoplastic polyolefin (TPO), polyvinyl chloride (PVC), and ethylene propylene diene monomer (EPDM) membranes. Emphasis is placed on proper seaming techniques, flashing details, penetration management, and quality control procedures specific to single-ply applications.</p>	Total Hours: 105	Credit Hours: 5
<p><b>RFA 112 - Modified Bitumen and Built-Up Roofing</b> This course covers the principles and practices of modified bitumen and built-up roofing (BUR) systems. Students learn torch-applied, cold-applied, and self-adhering modified bitumen installation techniques, as well as hot asphalt application methods for multi-ply built-up roofing systems. Topics include substrate preparation, proper layering techniques, material selection, and system-specific repair procedures.</p>	Total Hours: 156	Credit Hours: 8
<p><b>RFA 113 - Steep Slope Roofing Applications</b> Students examine residential and commercial steep slope roofing systems including asphalt shingles,</p>	Total Hours: 65	Credit Hours: 3

tile, slate, metal roofing, and wood shakes. The course addresses proper underlayment installation, ventilation requirements, flashing techniques, valley construction, and ridge details. Emphasis is placed on weather-resistant barrier systems and code compliance for various steep slope applications.		
RFA 114 - Waterproofing, Building Envelope, and Green Technologies This course explores below-grade and above-grade waterproofing systems, building envelope principles, and sustainable roofing technologies. Topics include dampproofing applications, foundation waterproofing, air and vapor barrier systems, thermal performance, and moisture management. Students also learn about vegetative roof systems, cool roofing technologies, solar-ready installations, and energy-efficient roofing practices that support green building standards.	Total Hours: 90	Credit Hours: 4
Natural Science Gen Ed requirement (SCI 102)		Credit Hours: 3
<b>TOTAL:</b>		<b>Credit Hours: 29</b>

### ***DEGREE REQUIREMENTS***

Apprenticeship credits (table above)	26 credits
Construction Supervision	15 credits
General Education earned through apprenticeship program:	
SCI 102	3 credits
Remaining General Education requirements:	
2nd Composition/Communication OR	3 credits
UAT 210 Public Speaking	1.5 credits
UAT 213 Planning, Teaching and Assessing Effective Lessons	1.5 credits
Composition/Writing	3 credits
Arts/Hum. Elective	3 credits
Mathematics Elective	4 credits
Soc. Sci. Elective	3 credits
Open elective(s) to meet minimum credit requirement	3 credits
<b>Total</b>	<b>60 credits</b>