

ARTICULATION AGREEMENT

between

**International Association of Heat and Frost Insulators and
Allied Workers Local 25**

Apprenticeship Training Program

and

Washtenaw Community College

Associate of Science in Construction Supervision
Associate of Applied Science in Construction Supervision
Associate of Applied Science in Journeyman Industrial

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International Association of Heat and Frost Insulators and Allied Workers Local 25
Apprenticeship Training Program

and

Washtenaw Community College (WCC)

Associate of Science in Construction Supervision
Associate of Applied Science in Construction Supervision
Associate of Applied Science in Journeyman Industrial

Article I

Agreement on Principle

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

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 Welcome Center 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

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

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

Description	Approximate Hours	WCC Credit Hours
HFI 110 Trade Foundations, Applied Mathematics and Safety This course introduces apprentices to the professional context, applied mathematics, and safety practices of the mechanical insulation trade. Topics include apprenticeship and labor-management relationships; trade arithmetic, measurement, basic algebra, geometry, miter calculations, and material estimating; and OSHA-related hazard recognition, personal protective equipment, fall protection, scaffolding, confined-space entry, firestop and smoke-seal systems, mold hazards, and first aid/CPR. Emphasis is placed on applying calculations and safe work practices to insulation fabrication, installation, and jobsite participation.	Total Hours: 120	Credit Hours: 5
HFI 120 Mechanical Insulation Systems: Piping, Equipment and Vapor Control This course covers the theory, selection, and installation of mechanical insulation systems for piping, equipment, HVAC, underground service, and hot, cold, and cryogenic applications. Topics include heat-transfer principles, insulation materials, finishes, sealants, vapor barriers, expansion and contraction, and moisture control. Students develop hands-on skills in measuring, cutting, fitting, fastening, sealing, and finishing insulation on straight piping, fittings, valves,	Total Hours: 184	Credit Hours: 8

tanks, vessels, ductwork, and other mechanical equipment.		
HFI 130 Advanced Metal Jacketing and Removable Insulation Fabrication This course develops advanced skills in the layout, pattern development, fabrication, and installation of protective metal jacketing and removable insulation systems. Topics include piping, fittings, valves, tanks, vessels, turbines, and other irregular surfaces; selection of jacketing, insulation, skins, and attachment materials; and safe operation of brakes, rollers, crimpers, bead-ers, sewing machines, and fastening equipment. Students complete shop projects emphasizing accurate field measurements, proper fit, weather protection, reusable-pad construction, and quality workmanship.	Total Hours: 200	Credit Hours: 9
HFI 140 Blueprints, Codes, Specifications and Supervision This course prepares apprentices to interpret construction drawings, specifications, isometrics, schedules, and applicable codes and to use that information in planning and supervising mechanical insulation work. Topics include scale reading, project scope, material takeoff and ordering, installation requirements, coordination with engineers and other project personnel, jobsite organization, communication, motivation, leadership, teamwork, and workforce supervision. Emphasis is placed on using technical documents and effective supervisory practices to support safe, productive, and professional jobsite performance.	Total Hours: 72	Credit Hours: 4
TOTAL:		Credit Hours: 26

ARTICULATING CREDITS

Apprenticeship credits (table above)

26 credits

Note: 15 credits of residency is required for all degree programs.