

## HPIP Primary Insulation Credential – 2023 Guide

Department of Labor Approved for Construction Trades as of May 2020

### COST PER STUDENT

<20	=	\$150
21-50	=	\$125
51-100	=	\$99
101+	=	\$90

### CONTENT

Entry and Intermediate Level Insulation Coursework  
6 Modules, 2 Exams

- Terms & Concepts, [Entry](#)
- Energy Movement, [Entry](#)
- High Performance Insulation Systems, [Entry](#)
- Thermal Bypass Checklist, [Intermediate](#)
- Insulation Installation Standards, [Intermediate](#)
- Installation Professional, [Intermediate](#)

*\*Minimum completion time is 8 hours*

### ENTRY LEVEL COURSEWORK

The HPIP Entry Level Course and Exam consists of three modules covering industry basics to give students the initial knowledge needed to succeed in the insulation industry. Following completion of the required content, students assess their knowledge with our 30-question follow-up exam. The exam includes 10 questions from each module.

Upon completion of the Entry Level Coursework, your students will understand:

- The difference between thermal and air barriers.
- The connection between air leakage, energy waste, and moisture problems.
- How systems work, and their benefits and drawbacks.
- Identify steps in the installation process.
- Key safety considerations for installers.

### INTERMEDIATE LEVEL COURSEWORK



Following completion of the Entry Level Course & Exam, students will extend their knowledge of the Insulation Industry with the HPIP Intermediate Level Course.

Following completion of the required modules, students will assess what they have learned with a follow-up exam of 30 questions.

Upon completion of the Intermediate Level Coursework, your students will understand:

- Specific procedures for installing High Performance Insulation.
- How to verify installations meet the objectives of the Thermal Bypass Checklist.
- Inspection procedures to ensure air & thermal barriers aren't compromised.
- How to report details to prevent failing.
- How to improve systems for reduced costs.
- RESNET Insulation Grading Standards.
- Whether installations meet RESNET standards and the IECC Code.

### **HP RECRUITER – COMING SOON!**

HPIP is developing a tool to assist in job placement for Job Corps students. The HP Recruiter is a job board like Indeed Jobs specifically created for the insulation industry. Upon completion of the HPIP Primary Insulation training, HPIP will work with your center's career services to get students uploaded to this tool where they can search for insulation jobs directly related to the training they just completed.

### **CENTERS CURRENTLY UTILIZING THE HPIP PRIMARY INSULATION CREDENTIAL**

Visit <https://www.insulationtraining.org/job-corps> to view a map and a list of all the centers HPIP is currently working with.

### **RECOMMENDED MATERIALS AND ADDITIONAL REFERENCES**

#### **Helpful resources for the Entry Level Coursework:**

Top Industry Manufacturer Insulation Installation Recommendations:

CertainTeed

- [Fiberglass Insulation Installation Basics](#)

Johns Manville

- [Video Install Guides](#)

Knauf Insulation

- [EcoBatt Insulation Installation Guide](#)
- [Blown-In Insulation Machine Operation and Safety Guide](#)
- [Cold Pipe System Insulation Installation Guide](#)
- [Hot Pipe System Insulation Installation Guide](#)

Owens Corning

- [Installation Guide](#)

### **Helpful resources for the Intermediate Level Coursework:**

#### [ANSI/RESNET/ICC 301-2014 Addendum F-2018: Normative Appendix A](#)

- RESNET is a recognized national standards-making body for building energy efficiency rating and certification systems in the United States.

#### [2018 International Energy Conservation Code](#)

- The 2018 International Energy Conservation Code® (IECC®) encourages efficiency in envelope design, mechanical systems and lighting systems as well as the use of new materials and techniques. Many helpful references developed by code experts will assist designers, inspectors, plans examiners, contractors, instructors, students and others who use the 2018 IECC.

### **SUGGESTED LITERARY MATERIALS**

#### [Builder's Guide to Cold Climates](#)

- The North American Cold Climate edition of the Builder's Guide is augmented to provide the building industry with the latest and best practical information on how to apply building science principles to structures as systems in colder regions.

#### [Builder's Guide to Hot-Humid Climates](#)

- The Builder's Guide will provide the building industry with the latest and best practical information on how to apply building science principles to structures as systems in hot-humid climate regions.

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#### [Builder's Guide to Mixed-Humid Climates](#)

- The Builder's Guide will provide the building industry with the latest and best practical information on how to apply building science principles to structures as systems in mixed-humid climate regions.

#### Residential Energy: Cost Savings and Comfort for Existing Buildings

- Residential Energy is widely recognized as one of the best textbooks available on home energy conservation. It's used by hundreds of colleges and technical schools across North America. Residential Energy is an essential reference manual for home energy raters, energy auditors, weatherization technicians, carpenters, heating and air-conditioning specialists, insulation contractors, plumbers, electricians, and home-improvement enthusiasts.

#### Buildings Don't Lie

- A simple, clear, thorough, and complete explanation of basic building science applicable to any building in any climate. Over 1,000 large color drawings and photos, plus fun quizzes. No charts, graphs, or math. Read this book and become your own expert on making buildings comfortable, healthy, safe, durable, and very energy efficient, because you will understand the underlying science of the movement through buildings of heat, air, water, light, sound, fire, and pests, and how these can be controlled. This book also includes sections on designing building enclosures, indoor air quality, choosing heating and cooling systems, and how to ventilate, heat, and cool different types of buildings.

### REQUIREMENTS TO GET STARTED

- HPIP must receive a PO for the requested number of seats prior to providing an invoice.
- Job Corps Center must participate in an orientation call with HPIP that covers the use of the training platform, processing, and instructor requirements.
- Instructors must take and complete the credential at 100%.
- Instructors must provide a 4-week minimum instructional plan on how they will implement the credential, and how they will relate it to the students' other trade work.
- HPIP Job Corps Information Request Form must be filled out and returned to the Operations Manager, including what certifications and training the instructors have.
- Instructors will be required to complete 3 Continuing Education Units (3 hours) each year their center is utilizing the Primary Insulation Credential. These are provided by HPIP for free to the instructors, but outside training may be submitted for consideration.

## INSTRUCTIONAL PLAN REQUIREMENTS

- Utilize HPIP's Additional References in the Primary Insulation Credential course to build the curriculum.
  - Includes job site safety, manufacturer recommendations, installment guidelines, literary resources, etc.
  
- Utilize HPIP's content library to include more industry-advanced coursework to build the curriculum if you feel that the already included coursework will not take your students a full 4 weeks.
  - Toolbox Talks is an especially helpful learning path to explore.
  
- Include designated testing dates so that students are all testing on the same days.
  
- Include designated review dates before each exam to have Q&A classroom days so students can discuss as a group or with the instructor things they may not be fully grasping.
  
- Instructor-led training is required in the instructional plan. Instructors must incorporate a level of in-person or virtual training with their students to ensure students are comprehending the content. Instructors must demonstrate how they will include this in their plan.
  
- The instructional plan must include how the instructor will relate the insulation training to the other construction trade programs the students are enrolled in.
  
- Interviews and field trips with local insulation contractors; HPIP can assist if needed. (This is a suggestion, not required)
  
- Students must create resumes and create their accounts in HP Recruiter – Coming Soon!
  - Special consideration of this requirement will be made for students who are not graduating from their program.

## INSTRUCTION PLAN OUTLINE SUGGESTION

HPIP Primary Insulation Credential for Construction Trades

Instructor:

Email:

Phone:

Meeting Days:

### **Week 1 – Entry Level Content**

Required Content:

- Terms & Concepts
- Energy Movement

- High Performance Insulation Systems

Suggestions:

- Utilize the Toolbox Talks Learning Path in the content library.
  - Head Protection
  - Workplace Vehicle Safety
  - Working at height
  - Etc.
- A Rater's Point of View (Content Library)
- Batt Installation, Meeting Grade 1 Standards

**Week 2 – Entry Level Exam Week**

- Spend a day with students creating their own study guides.
- Spend (at a minimum) one day relating the content learned the previous week to the students' selected trade.
- Review day for students to ask specific questions.
  - Ask them if they think they have a grasp on the outlined learning objectives.
- Exam Day

**INSTRUCTION PLAN OUTLINE SUGGESTION (CONT.)**

**Week 3 – Intermediate Level Content**

Required Content:

- Thermal Bypass Checklist
- Insulation Installation Standards
- Installation Professional

Suggestions:

- Work with students on creating their resumes for HP Recruiter
- Add coursework from the Sales Mastery Learning Path in the Content Library
  - Sales are an important part of an insulation installer's job.
- Work with a local contractor to do a site visit of their office and a current job site.
- Utilize the additional references tab of the online course.
  - Jobsite checklists
  - Manufacturer guides
  - Literary Suggestions
    - Use short videos from [Knauf Insulation's YouTube](#)
- Have students take the Spray Foam Safety course in the Content Library
  - It's important for students to get exposure of SPF before entering the workforce.

**Week 4 – Intermediate Level Exam Week**

- Spend a day with students creating their own study guides.
- Spend (at a minimum) one day relating the content learned the previous week to the students' selected trade.
- Review day for students to ask specific questions
  - Ask them if they think they have a grasp on the outlined learning objectives
- Exam Day
- After passing their exams, students will work to create accounts in HP Recruiter

## **THINGS TO KNOW**

- Instructors are not charged to take the credential prior to implementing it on campus, or at all.
- Students are not charged to retake exams.
- Students have 2 attempts to take exams and reach the necessary pass rate of 80%. If they do not pass after 2 attempts, they will be locked out of the exam until HPIP staff unlocks it. Once it is locked instructors must meet with the student to review what they are having trouble with and identify if there are any learning barriers.
- Once a student logs into the Learning Management System that houses the Primary Insulation Credential it will count towards the center's used seat count. If a student drops out the center cannot reclaim that seat as unused.
- Instructors should never delete or deactivate a student from the LMS.
- Seats do not expire; they roll over from year to year if unused.
- HPIP's Insulation Credentials are all online. We do not allow training materials from the modules to be exported, printed, or distributed outside of the online learning management system it is housed in.

## **CONTACT US**

**[training@hpipros.org](mailto:training@hpipros.org)**

**800-484-6471**