

TRAINING AND TECHNICAL ASSISTANCE (T&TA) PLAN TEMPLATE

1.0 – GENERAL INFORMATION

COMMENTS THAT DO NOT GENERALLY FIT INTO THE AVAILABLE TABLES BELOW

Local Administering Agency training and technical assistance (T&TA) needs are determined by training assessment surveys, analysis of findings identified during on-site monitoring by the Weatherization Technical Services Unit (trend tracking analysis of deficiencies), requests for T&TA made by the Local Administering Agencies, and by the changes in of the IHWAP program requiring additional training for weatherization staff. The Local Administering Agency T&TA budget is calculated based on the amount of training that will be provided by OCA during the program year and the costs associated with travel, lodging, etc.

Additionally, OCA staff will conduct an annual risk assessment of the Local Administering Agency's weatherization program. Based on the results of the assessment, OCA staff will work with the Agency to identify training needs and available resources. When the Local Administering Agency is required to develop and implement a Corrective Action Plan as a result of OCA monitoring, the plan may also identify training needs of the Local Administering Agency. OCA regularly solicits input from the Local Administering Agencies to assess training needs of the network.

The biggest current challenge for the IHWAP program is a lack of qualified contractors and field staff personnel. IHWAP plans to promote workforce development and attract new contractors statewide with the use of T&TA funding. The main avenue IHWAP is pursuing to expand contractor pool is allowing Local Administering Agencies to use T&TA funds to train IHWAP contractors who attend training at the request of the local agency or as required by IHWAP. Reasonable stipends to cover labor time and travel cost may be included as part of the training expense. Based on the Agencies response to a question on the use of stipends in our annual weatherization plan, only 2 agencies have offered stipends to contractors, 2 have offered partial stipends (cover travel cost), and 16 agencies have not provided stipends but will consider or plan to offer them in the future. OCA will continue to analyze the number of contractors receiving stipends and the adequacy of the stipend amounts.

Based on our analysis of labor cost for HVAC and insulation installers from U.S. Bureau of Labor Statistics (Illinois specific data) and IHWAP's wage data from crew-based agencies, these workers typically earn \$50,000-\$75,000 per year (\$75,000 annual salary = \$300 for an 8-hr workday). Consequently, the stipend will be limited to \$300 per day for labor cost, in addition to the travel cost for the training.

IHWAP has created a retention agreement template that the local agency will use to specify what cost will be covered by the stipend and what the contractor agrees to in exchange for the training. The retention agreement requires contractors work in the program for a specific amount of time (the length of their

agreement with the local agency which is typically 1 year, with 1 year extension), to be determined by the local agency, and must align with the cost of the T&TA provided.

IHWAP will review retention agreements and review stipends to ensure the labor cost and travel cost reimbursed are consistent with this policy during programmatic monitoring.

OCA is also planning to use T&TA funds to expand the weatherization workforce. IHWAP will use T&TA funds to support the development of an apprenticeship program. The apprenticeship program will provide individuals technical skills in the building science profession and will provide the opportunities to earn up to six BPI credentials related to home performance. We are exploring options for an apprenticeship program with all funding sources and our utility partners. At the end of the apprenticeship, it is our goal to place the interns at one of our local agencies, or with a contractor that works within the program. The apprenticeship program will grow interest in the building science industry and expand potential workforce options for the IHWAP network.

2.0 – OVERALL T&TA PLAN

YOUR OVERALL T&TA PLAN MUST INCORPORATE SUGGESTIONS AND FEEDBACK THE FOLLOWING ELEMENTS.

FEEDBACK FROM INTERNAL AND EXTERNAL REVIEWS, EXAMPLES INCLUDE:

- FEEDBACK FROM DEPARTMENT OF ENERGY (DOE) PROJECT OFFICER (PO) MONITORING VISITS
- INTERNAL STATE AUDITS
- GRANTEE MONITORING OF THE SUBGRANTEES
- OFFICE OF INSPECTOR GENERAL (OIG) REPORTS
- AMERICAN CUSTOMER SATISFACTION INDEX FEEDBACK, AND
- OTHER. EXAMPLES INCLUDE:
 - TRAINING FEEDBACK
 - TRAINING RETENTION ACTIVITIES

At this time, IHWAP is not including feedback from DOE Monitoring Visits, internal state audits, OIG reports, ACSI feedback. We have not received feedback in the last year from any of these sources. IHWAP is including suggestions from training assessment surveys, analysis of findings identified during on-site monitoring by the Weatherization Technical Services Unit (trend tracking analysis of deficiencies), local agency callback data, air sealing reports by agency, and requests for T&TA made by the Local Administering Agencies.

EXISTING OR PLANNED ACCREDITED TRAINING CENTER PARTNERSHIP OR WORKING RELATIONSHIP.

IHWAP partners with the University of Illinois, Indoor Climate Research & Training Center (ICRT) through an inter-governmental agreement. ICRT is an IREC-accredited training center. ICRT provides all technical training as well as training for weatherization coordinator, and administrative training for the IHWAP network.

PREPARATIONS FOR FUTURE/UPCOMING PROGRAM REQUIREMENTS, EXAMPLES INCLUDE:

- **UPDATED STANDARD WORK SPECIFICATIONS (SWS)**
- **MIGRATION TO ONLINE WEATHERIZATION ASSISTANT**
- **INCLUSION OF SPECIFIC LANGUAGE FROM WEATHERIZATION PROGRAM NOTICES (WPN)**

IHWAP has updated the field standards to ensure alignment with the Standard Work Specifications. IHWAP is also going to include the QCI mentorship approach to reflect WPN 22-4. OCA will provide training on the mentorship approach at our Policy and Procedure workshop in June, 2022. Additionally, IHWAP will update its Operations Manual for the next program year.

WHAT PROTOCOLS ARE IN PLACE WHICH ENSURE UNTRAINED STAFF ARE NOT LEFT WITHOUT SUPERVISIONS DURING FIELD OPERATIONS?

Weatherization Coordinators, Assessors, and Final Inspectors must be TCP certified within one year of their employment unless written approval is granted by DCEO/OCA for an extension. This certification ensures that weatherization staff understand the policies and technical requirements necessary to

complete the home weatherization process successfully. Staff that do not meet the requirements of certification do not have signature authority on assessments or final inspections.

Per our Operations Manual, all DOE final units must receive a final inspection by a BPI-certified Quality Control Inspector. Individuals that do not hold BPI-certified QCI are prohibited from conducting final inspections.

PARTNERSHIPS WITH THE STATEWIDE HOME PERFORMANCE INDUSTRY ON TRAINING ISSUES; IF APPLICABLE.

Not applicable.

HOW DOES ANALYSIS CONDUCTED, AS DETAILED IN SECTION V.6 OF THE ANNUAL APPLICATION, INFLUENCE THE DEVELOPMENT OF T&TA ACTIVITIES AND PRIORITIES?

IHWAP utilizes training assessment surveys, analysis of findings identified during on-site monitoring by the Weatherization Technical Services Unit (trend tracking analysis of deficiencies), local agency callback data, air sealing reports by agency, and requests for T&TA made by the Local Administering Agencies.

3.0 – WORKFORCE CREDENTIALS

DESCRIBE THE FOLLOWING ASPECTS OF YOUR T&TA PLAN RELATED TO WORKFORCE CREDENTIALS.

FEDERALLY REQUIRED CREDENTIALS. EXAMPLES INCLUDE:

- ENVIRONMENTAL PROTECTION AGENCY LEAD RENOVATION, REPAIR, AND PAINTING PROGRAM
- HOME ENERGY PROFESSIONALS QUALITY CONTROL INSPECTOR CERTIFICATION

IHWAP provides training to the network for all federally required credentials through the University of Illinois ICRT.

GRANTEE/STATE REQUIRED CREDENTIALS. EXAMPLES INCLUDE:

- BUILDING PERFORMANCE INSTITUTE BUILDING ANALYST
- GRANTEE-DEVELOPED CERTIFICATIONS

In addition to federally required credentials, IHWAP requires all field staff and agency coordinators to complete the 10-week Training and Certification Program (TCP). Before beginning TCP, all staff must first obtain the BPI Building Science Principles certification. Furthermore, crews and architectural/ mechanical contractors are required to obtain IHWAP certification.

SUBGRANTEE/LOCAL REQUIRED CREDENTIALS. EXAMPLES INCLUDE:

- CONTRACTOR LICENSING

Subgrantees are responsible for ensuring their contractors hold the necessary licensure to conduct business in local government regions.

INDUSTRY REQUIRED CREDENTIALS. EXAMPLES INCLUDE:

- **EQUIPMENT/MATERIAL MANUFACTURE CERTIFICATION**
- **VENDOR CERTIFICATION**
(E.G. EQUIPMENT/MATERIAL MANUFACTURE CERTIFICATION, VENDOR CERTIFICATION)

Not applicable.

PROCESS FOR MAINTAINING WORKFORCE CREDENTIALS

Not applicable.

HOW CREDENTIALS ARE TRACKED

Not applicable.

4.0 – TRAINING

GRANTEES HAVE TWO OPTIONS TO DESCRIBE THEIR TRAINING.

- A) USE THE EMBEDDED SPREADSHEET* TO IDENTIFY AND DESCRIBE THE TRAINING SCHEDULE FOR GRANTEE AND SUBGRANTEE STAFF. INCLUDE TECHNICAL AND NON-TECHNICAL TRAINING.
- B) OR USE THE FIELDS BELOW TO IDENTIFY AND DESCRIBE THE TRAINING SCHEDULE FOR GRANTEE AND SUBGRANTEE STAFF. INCLUDE TECHNICAL AND NON-TECHNICAL TRAINING.

GRANTEE'S ARE TO INCLUDE THE FOLLOWING IN THEIR DESCRIPTIONS REGARDLESS OF WHAT OPTION IS BEING USED TO DESCRIBE THEIR TRAINING PLAN:

- SPECIFY WHETHER ATTENDANCE IS MANDATORY, AND THE RAMIFICATIONS FOR NON-COMPLIANCE.
- SPECIFY IF THE T&TA PLAN SPANS MULTIPLE PROGRAM YEARS (PY), INDICATE WHICH TRAININGS ARE INTENDED IN THE CURRENT PY AND WHICH ARE PLANNED FOR FUTURE PYs.

* THE EMBEDDED SPREADSHEET, IF COMPLETED AT THE END OF THE YEAR TO RECORD DELIVERED TRAINING, CAN BE USED AS DOCUMENTATION FOR THE REQUIRED ANNUAL T&TA REPORT. DOUBLE CLICK TO OPEN SPREADSHEET. ENTER INFORMATION AND CLOSE. IT WILL AUTOMATICALLY SAVE YOUR INFORMATION

Indoor Climate Research & Training, a unit of the Illinois Applied Research Institute, will provide the administration of the IHWAP Training and Certification program. This will include the provision of qualified trainers and facilities for each scheduled class. Classes planned for the 2022 program year include:

A. Classes for Certification Rounds

1. Weatherization Basics	4 classes
2. Heat Transfer	4 classes
3. Building Fundamentals	4 classes
4. Building Diagnostics	4 classes
5. Infrared Thermography	3 classes
6. Mid-Course Field Session	4 classes
7. Heating Systems Basics	5 classes
8. Heating Systems Advanced	5 classes
9. Air Conditioning/Heat Pumps	5 classes
10. Health and Safety	5 classes
11. Building Assessment	5 classes
12. Certification Exam	5 classes
13. Architectural Contractor Curriculum	4 classes
14. HVAC Contractor Curriculum	4 classes
15. BPI Quality Control Inspector	3 classes
16. Energy Auditor Training	6 classes
17. Healthy Home Evaluator	4 classes

B. Other Classes Related to IHWAP

1. Air Sealing Workshops	6 classes
2. Basic Electricity Workshop	3 classes
3. ASHRAE 62.2 Workshop	2 classes
4. Multifamily QCI Training	4 classes
5. Confined Space Training	As needed
6. In-field Training (DCEO and Local Administering Agencies' staff)	As needed
7. Solar Photovoltaic Training	2 classes
8. Weatherization Coordinator Training	2 classes
9. Executive Director Training Workshop	4 classes

Illinois Weatherization Certification Workshops

Course Descriptions

July 1, 2022 to June 30, 2023

Weatherization Certification Course Descriptions

Note: Weatherization Coordinators, Assessors, and Final Inspectors must be TCP certified (completion of courses 1-12) within one year of their employment unless written approval is granted by DCEO/OCA for an extension. This certification ensures that weatherization staff understand the policies and technical requirements necessary to complete the home weatherization process successfully. Staff that do not meet the requirements of certification cannot sign-off on assessments or final inspections.

1. Weatherization Basics – 24 Hours (required training for IHWAP field staff and Coordinators)

This five-day course provides the basic overview of the Illinois Home Weatherization Assistance Program.

The course covers the history of weatherization in Illinois, budgets and life cycles of the three major funding sources. It also covers what will be expected of the trainees throughout the 10-week training cycle. A special emphasis will be placed on rules and policies associated with the program.

2. Heat Transfer – 24 Hours (required training for IHWAP field staff and Coordinators)

This five-day course provides the basic principles and characteristics of energy and the way energy is used.

The course focus is on the variety of ways heat transfers through the building envelope of a home. The course provides underlying principles used to determine how and where energy can be used more efficiently in buildings, and strategies to pinpoint energy conservation are outlined in this course. Additionally, this class outlines the basics of energy modeling and Manual J Furnace sizing.

3. Building Fundamentals – 24 Hours (required training for IHWAP field staff and Coordinators)

The Building Fundamentals course concentrates on fundamentals of building construction. Explanations of building components such as windows, doors, roof, walls, attic, floors and foundation systems are provided. Basic construction measuring and estimating methods are introduced and explained.

4. Introduction to Building Diagnostics – 24 Hours (required training for IHWAP field staff and Coordinators)

This five-day course explains the use of building diagnostic tools and test methods, including:

- blower door testing
- zone pressure diagnostic testing

- duct leakage testing
- combustion safety testing
- ventilation based on the ASHRAE 62.2 Ventilation Standard

The dynamics of how the building components interact such as the furnace and attic systems are defined. The information gained from the diagnostic tools is used to determine opportunities to save energy. Explanations of how to balance air sealing with ventilation and improve thermal performance of a home will be covered. This course includes visual and hands on training using various props including the house of pressure and the combustion safety testing home.

5. Infrared Thermography – 12 Hours (required training for IHWAP field staff and Coordinators)

This course covers the utilization of infrared thermography in the field of weatherization. Usage of infrared thermal imaging in tandem with diagnostic tools will be covered, demonstrating how best to determine temperature differences through infrared thermography and how to read those images accurately to assist in the determination of proper weatherization measures to be applied. All types of infrared thermography equipment will be discussed, and trainees are encouraged to bring equipment from their Local Administering Agency for discussion on the proper use of the equipment.

6. Mid-Course Field Assessment – 24 Hours (required training for IHWAP field staff and Coordinators)

The Mid-Course Field session was designed to allow trainees advanced hands on experience working through a mock architectural assessment utilizing those standard practices and principles learned through the previous Training & Certification Program (TCP) trainings. Each student is evaluated for their individual strengths and weaknesses and will gain training to improve the weaknesses observed. This class also advances the student knowledge on energy modeling.

7. Introduction to Heating Systems – 24 Hours (required training for IHWAP field staff and Coordinators)

The Introduction to Heating Systems course teaches the basic combustion principles for primary heating systems. Instructions on how to analyze the operation of each heating system are provided. Instruction on the proper installation of the gas supply system is provided. The course will include classroom learning and hands-on laboratory sessions dealing with different types of furnaces.

8. Advanced Heating Systems – 24 Hours (required training for IHWAP field staff and Coordinators)

The Advanced Heating Systems course builds upon the knowledge from students' field experience and the introduction to heating systems course. Participants will be taught how to determine the effectiveness of the distribution system. Understanding how the furnace controls affect the efficiency and comfort in the home will also be taught. Using the furnace audit tools to trouble shoot equipment problems is included in the course.

9. Air Conditioning and Heat Pumps – 24 Hours, 12 Building Performance Institute Continuing Education

Units (BPI CEUs) (required training for IHWAP field staff and Coordinators)

This course will expand on the Advanced Heating Systems course. It will explore the differences between conventional heating systems versus heat pumps, all types of air conditioning systems and their components. It will explore energy savings and efficiencies as well as determining what type of systems each may encounter while in the field during the weatherization assessment process.

10. Health & Safety, Indoor Pollutants, Lead-safe Weatherization – 18 Hours (required training for IHWAP and Coordinators)

The Health and Safety of Indoor Pollutants is a basic introduction to common hazards in the home. The primary objective of this two-day course is to provide the participant with an understanding of these hazards and some simple strategies to mitigate pollutants. The course will cover the following topics: a) mold and biological contaminants, b) moisture assessment in housing, c) combustion safety, d) asbestos in housing, e) volatile organic compounds (VOC's) and other chemicals, f) pests and pesticides, g) review of ventilation, h) air exchange rates, and i) lead-safe weatherization practices.

11. Weatherization Building Assessment Follow-up – In Field – 12 Hours (required training for IHWAP field staff and Coordinators)

Weatherization Building Assessment Follow-Up is a class that is scheduled from two to eight weeks to two months after certification has been completed. This follow-up class is designed to provide feedback to the assessor/final inspector and weatherization coordinator, who have recently been certified. The class will provide an opportunity for the student to perform a building energy audit using the WeatherWorks system with the instructor, individually and as a class. The objective of the class is to share best practices and techniques/technologies among the students from individual agencies and encourage field efficiencies in the building assessment process and energy modeling process.

12. Proficiency Test – 6 Hours (required training for IHWAP field staff and Coordinators)

Once the nine core certification classes have been successfully completed, the students will be required to complete a proficiency test that covers elements from each class. The instructors provide an overview of the subjects, and then the students are given a comprehensive exam on the following courses: Weatherization Basics, Health & Safety, Indoor Pollutants and Lead-safe Weatherization, Building Fundamentals, Heat Transfer, Introduction to Heating Systems, Advanced Heating Systems, Air Conditioning and Heat Pumps, Introduction to Diagnostics and Infrared Thermography.

13. Quality Control Inspector ("QCI") Class – 24 Hours, 10 BPI CEUs (best practice for staff preparing to challenge the BPI QCI)

This five-day course is to teach the basic principles and techniques of proper weatherization quality control inspections. This course will cover the quality control inspection process as a checks and balance system in the areas of in-progress inspections, and final quality control inspections of weatherization work. This is a preparatory course for the IHWAP workforce who will be challenging the Department of Energy (“DOE”) mandated QCI Certification Exam.

14. Energy Auditor Class – 32 Hours, 32 BPI CEUs (best practice for staff preparing to challenge the BPI EA)

This five-day course is to teach the basic principles and techniques of proper weatherization energy auditing. This course will cover the energy auditing process. This is a preparatory course for the IHWAP workforce who will be challenging the soon-to-be DOE mandated “EA Certification”.

15. Architectural/Crew Leader Certification Training – 32 Hours, 16 BPI CEUs (required for all architectural firms completing homes in IHWAP)

This one-week class leads to crew leader certification for work in the IHWAP. Skills needed for effective crew leadership are presented. Fundamentals of heat transfer and material estimation are reviewed. IHWAP Field Standards are discussed. Dense-pack sidewall insulation, air sealing and diagnostics tests are reviewed with a focus on the crew leader becoming the instructor in the field. The crew leader, as the first person conducting quality assurance on a job, is emphasized.

16. HVAC Certification Training – 24 Hours (required for all HVAC firms completing homes in IHWAP)

This five-day course covers the following topics: weatherization program overview and process, residential energy use and energy measurements, basic heat loss and heat transfer, weatherization safety testing procedures and protocols, basic and advanced heating systems standards, optional heating and air conditioning systems, and venting standards.

17. Healthy Home Evaluator – 24 Hours (not currently mandatory)

In this one-week class, students learn how to conduct an in-depth home audit and environmental risk analysis. They will learn how to assess the risk of key home-based health hazards including asthma triggers from dust, moisture and mold, volatile organic compounds (VOCs), lead-based paint, asbestos, radon, carbon monoxide leaks, as well as potential fire hazards, trip and fall hazards, and pest management issues.

Other Courses Related to the Weatherization Program (the following courses are not required)

1. Housing Types and Air Sealing for Contractors and Assessors/Final Inspectors – 6 Hours

The audience for this course is assessors, final inspectors and contractors. This workshop will provide a hands-on approach to air sealing using weatherization diagnostics tools (blower door, manometer, and pressure pans). “Typical Energy Profiles” will be used to identify building faults in construction, e.g., the workshop will demonstrate a variety of methods and techniques for air sealing. Demonstrations on the appropriate air sealing materials to provide the most efficient installation for a variety of building sections will be provided.

2. Basic Introduction to Electricity for Weatherization – 6 Hours, 6 BPI CEUs

The audience for this course is assessors and final inspectors. This workshop will provide the basics for understanding electricity in residential housing and is an introductory class to electricity. The course will provide participants with fundamentals of electricity and an introduction in how to recognize questionable and dangerous systems or system elements in low-income housing stock. The course will describe the basics of how electricity works and the types of systems that are deployed, e.g., knob and tube wiring, etc.

3. American Society of Heating Refrigeration & Air Conditioning Engineers (ASHRAE) 62.2 Workshop – 6 Hours

This one-day course will provide participants with an understanding of the new policies mandated by IHWAP funding sources. This will include intent and overview of the policy, current versus new mandated guidelines as well as a question and answer period. Logical applications and associated hardware will be discussed.

4. Multi-Family Quality Control Inspector (QCI) – 24 Hours

This 5-day course is to teach the basic principles and techniques of proper weatherization quality control inspections for multi-family structures. This course will cover the quality control inspection process as a checks and balances system in the areas of in-progress inspections and final quality control inspections of weatherization work.

5. In-field Training

This one-day hands-on training is provided annually to IHWAP State Technicians. The morning will be spent in the HVAC lab and the afternoon will be spent in the field using diagnostic equipment. Local Administering Agencies’ staff will also have hands-on training available that will occur in the field for any staff member that is found in need of technical assistance in such areas as the proper use of diagnostic equipment or interpretation of test results.

6. Confined Spaces Training

This one-day workshop will define the term confined spaces, determining whether they may pose a hazard, and how to work safely following OSHA guidelines in such spaces.

7. Introduction to Solar Energy and Solar Assessments

This two-day course will provide a basic understanding on how solar photovoltaics (PV) works, teach participants how to perform a solar site assessment, and identify how to inspect a solar PV system. The first day will use a combination of lecture and classroom activities to teach the fundamentals of solar electric systems including diagramming the four types of PV, describe and identify the various components of solar, understanding the best application and limitations of each system type, and defining the solar window and understanding the impacts of shading on solar energy output. The second day will cover site assessment tools, load analysis, array placement options, basic system sizing, evaluating the existing infrastructure on site, and the key criteria to consider when inspecting a solar PV system.

8. Weatherization Coordinator Training

This 4-day course will provide a basic understanding of IHWAP policy and procedure and provide an overview of the administrative requirements of the IHWAP Program. Students will learn about the accountability aspects of the program and leave the class with administrative best practices to help them better administer the IHWAP grants locally.

9. Executive Director Training

This 2-day course will provide a high-level overview of the IHWAP Program. Executive Directors will learn the technical nature of the IHWAP Program. Learn the importance of staffing the program properly and be provided with salary comparisons for fields comparable to weatherization. Students will also learn about the accountability and technical requirements that make the IHWAP Program unique as compared to other social service programs.

The class schedule is not yet finalized for IHWAP Program Year 2022.

PROGRAMMATIC/ADMINISTRATION TRAINING

- FINANCIAL (I.E. 2 CFR 200)
- MANAGEMENT (I.E. 10 CFR 440)

IHWAP provides programmatic and administrative training through Weatherization Coordinator training and Executive Director training courses. Fiscal training is provided to agency through the Office of Community Assistance fiscal office through the Grant Application Workshop, as well as on-site fiscal training. IHWAP also

provides onsite consulting services for local agencies to assist weatherization coordinators and fiscal managers on programmatic, fiscal, and administrative tasks. IHWAP conducts a policy and procedures workshop before each program year to update the network on any policy changes incorporated into the program for the upcoming program year.

We are also adding soft skills training this year for all IHWAP field staff. This will include a poverty simulation, conflict resolution, mandated-reporter training, and simulated client interview.

COMPREHENSIVE TECHNICAL TRAINING ALIGNED TO THE JOB TASK ANALYSIS (IDENTIFY AT WHAT INTERVALS WORKERS WILL RECEIVE REGULAR, COMPREHENSIVE TRAINING AS REQUIRED BY WEATHERIZATION PROGRAM NOTICE (WPN) 15-4)

- QUALITY CONTROL INSPECTOR
- ENERGY AUDITOR
- CREW LEAD
- RETROFIT INSTALLER/TECHNICIAN

ICRT provides technical refresher course work annually to the IHWAP network. For example, this year ICRT plans to train the network on measuring external static pressure in duct systems, and how to correct improperly sized duct systems.

SPECIFIC TECHNICAL TRAINING

- TOPICS IDENTIFIED DURING MONITORING VISIT(S)
- ENERGY MODELING
- HEALTH & SAFETY. ALL H&S TOPICS IN WPN 17-7 REQUIRE SOME LEVEL OF TRAINING FOR ALL AFFECTED WORKERS, THE FREQUENCY OF THIS TRAINING IS A GRANTEE DECISION. EXAMPLES INCLUDE:
 - AIR CONDITIONING AND HEATING SYSTEMS
 - ASBESTOS
 - BIOLOGICALS AND UNSANITARY CONDITIONS
 - BUILDING STRUCTURE AND ROOFING
 - CODE COMPLIANCE
 - COMBUSTION GASES
 - ELECTRICAL
 - FORMALDEHYDE, VOLATILE ORGANIC COMPOUNDS (VOCs), FLAMMABLE LIQUIDS, AND OTHER AIR POLLUTANTS
 - FUEL LEAKS
 - GAS RANGE/OVENS
 - HAZARDOUS MATERIALS DISPOSAL
 - INJURY PREVENTION OF OCCUPANTS AND WEATHERIZATION WORKERS
 - LEAD BASED PAINT
 - EPA'S LEAD RENOVATION, REPAIR & PAINTING PROGRAM (RRP)MOLD/MOISTURE
 - PESTS
 - RADON
 - SAFETY DEVICES
 - VENTILATION AND INDOOR AIR QUALITY
 - AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR-CONDITIONING ENGINEERS (ASHRAE)
 - WINDOW REPAIR, DOOR REPAIR

<ul style="list-style-type: none"> ○ WORKER SAFETY <ul style="list-style-type: none"> ▪ OSHA ○ ADDITIONAL TOPICS AS DESCRIBED IN HEALTH & SAFETY PLAN • CLIENT EDUCATION (TRAINING WORKERS TO CONDUCT CLIENT EDUCATION). EXAMPLES INCLUDE: <ul style="list-style-type: none"> ○ ENERGY SAVINGS STRATEGIES ○ PROGRAM-SPECIFIC INFORMATION. EXAMPLES INCLUDE: <ul style="list-style-type: none"> ▪ WHAT TO EXPECT ▪ ADDITIONAL RESOURCES ○ HEALTH & SAFETY ISSUES
<p>IHWAP provides training on all these topics during the 10-week Training and Certification Program. Course descriptions are included in the response to Section 4.0 Training above.</p>
<p style="text-align: center;">CONFERENCES. EXAMPLES INCLUDE:</p> <ul style="list-style-type: none"> • ENERGY OUTWEST • BUILDING PERFORMANCE ASSOCIATION • NATIONAL ASSOCIATION FOR STATE AND COMMUNITY SERVICE PROVIDERS • COMMUNITY ACTION PARTNERSHIP
<p>IHWAP provides funding and encourages our subgrantees to attend technical and programmatic conferences either in person or virtual.</p>
<p style="text-align: center;">OTHER, PLEASE SPECIFY:</p>
<p style="text-align: center;">DESCRIBE OTHER TRAINING ACTIVITIES HERE</p>

<p style="text-align: center;">5.0 – TECHNICAL ASSISTANCE</p> <p style="text-align: center;">DESCRIBE THE TECHNICAL ASSISTANCE ACTIVITIES INCLUDED IN THE T&TA BUDGET CATEGORY.</p>
<p style="text-align: center;">PROGRAMMATIC/ADMINISTRATION SUPPORT</p>
<p>IHWAP provides onsite consulting services for local agencies to assist weatherization coordinators and fiscal managers on programmatic, fiscal, and administrative tasks.</p>
<p style="text-align: center;">TECHNICAL SUPPORT</p>
<p>IHWAP provides a multitude of technical support services to our subgrantees. IHWAP has resources at the ICRT Training Center that provide in-field assessment/final inspection technical support and mentoring, contractor technical support. IHWAP also employs 8 weatherization specialists who provide training and technical assistance on all programmatic and technical aspects of the program.</p>
<p style="text-align: center;">HEALTH & SAFETY SUPPORT ACTIVITIES</p>
<p>THE IHWAP network is assisted on health and safety issues by the ICRT training staff and IHWAP weatherization specialists.</p>

MONITORING
WHAT PERCENTAGE OF T&TA FUNDING IS ALLOCATED TO MONITORING? (IF DEFINED IN SECTION B OF THE BUDGET DETAILS WITHIN THE ANNUAL APPLICATION, INCLUDE THAT WITHIN YOUR DESCRIPTION BELOW.)
IHWAP does not use T&TA funds for monitoring.
OTHER, PLEASE SPECIFY
DESCRIBE OTHER TECHNICAL ASSISTANCE ACTIVITIES HERE

6.0 CLIENT EDUCATION
DESCRIBE WHAT CURRENT AND PLANNED CLIENT EDUCATION MATERIALS AND/OR ACTIVITIES ARE INCLUDED IN THE T&TA BUDGET CATEGORY. ONLY THOSE PAID FOR WITH T&TA FUNDS NEED TO BE MENTIONED.
NOTE: THIS DOES NOT INCLUDE TRAINING WORKERS TO DELIVER CLIENT EDUCATION. THIS SHOULD BE DESCRIBED IN THE TRAINING SECTION, ABOVE.
CLIENT EDUCATION ACTIVITIES PRIOR TO, DURING AND AFTER WEATHERIZATION WHICH ADDRESS THE WEATHERIZATION PROCESS AND ENERGY SAVINGS DETAILS
IHWAP PROVIDES CLIENT EDUCATION DURING THE ENERGY AUDIT. CONTRACTORS ARE ALSO REQUIRED TO EDUCATE CLIENTS ON THE EFFICIENCY MEASURES INSTALLED IN THE HOME. FINAL INSPECTORS ALSO CONDUCT CLIENT EDUCATION AS PART OF THEIR QCI AND FINAL INSPECTION. IHWAP DOES NOT PAY FOR ANY OF THESE ACTIVITIES WITH THE T&TA ALLOCATION.
<p style="text-align: center;">CLIENT EDUCATION ACTIVITIES REGARDING H&S ISSUES AS INDICATED IN WPN 17-7</p> <ul style="list-style-type: none"> ○ AIR CONDITIONING AND HEATING SYSTEMS ○ ASBESTOS ○ BIOLOGICALS AND UNSANITARY CONDITIONS ○ BUILDING STRUCTURE AND ROOFING ○ CODE COMPLIANCE ○ COMBUSTION GASES ○ ELECTRICAL ○ FORMALDEHYDE, VOLATILE ORGANIC COMPOUNDS (VOCs), FLAMMABLE LIQUIDS, AND OTHER AIR POLLUTANTS ○ FUEL LEAKS ○ GAS RANGE/OVENS ○ HAZARDOUS MATERIALS DISPOSAL ○ INJURY PREVENTION OF OCCUPANTS AND WEATHERIZATION WORKERS ○ LEAD BASED PAINT ○ EPA'S LEAD RENOVATION, REPAIR & PAINTING PROGRAM (RRP)MOLD/MOISTURE ○ PESTS ○ RADON ○ SAFETY DEVICES ○ VENTILATION AND INDOOR AIR QUALITY <ul style="list-style-type: none"> ▪ AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR-CONDITIONING ENGINEERS (ASHRAE) ○ WINDOW REPAIR, DOOR REPAIR ○ WORKER SAFETY

- - ADDITIONAL TOPICS AS DESCRIBED IN HEALTH & SAFETY PLAN
 - OSHA

<p>DESCRIBE H&S CLIENT EDUCATION ACTIVITIES/RESOURCES HERE</p>	
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