



ENERGY
SOLUTIONS

Weatherization: Foundation of the U.S. Energy Efficiency Market



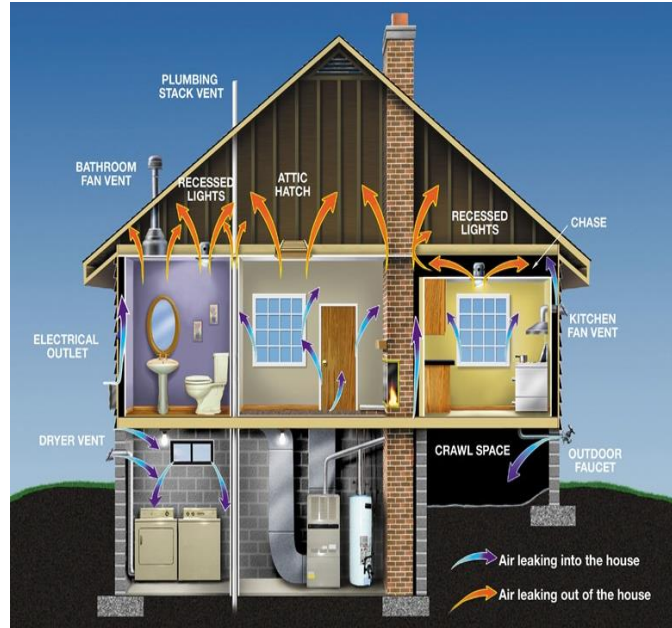
Weatherization from the Past



(C) InspectAPedia.com courtesy S Bliss Solar Age



Weatherization Now!



Weatherization sets the BAR!

Weatherization set the standard for the residential energy efficiency retrofit and home performance industry by developing:

Guidelines for Home Energy Professionals



The Core 4

-Standard Work Specifications

-Job Task Analysis

-Worker Certification

-Accredited Training Centers



Standard Work Specifications (SWS)

Defining the Work

-The Standard Work Specifications (SWS) define the minimum acceptable outcomes for any weatherization or home performance task to be effective, durable, and safe.



Job Task Analysis (JTA's)

Validate the Training

- The JTAs for the four major energy upgrade job classifications define what a worker needs to know and do.

The four job classifications are:

- Retrofit Installer Technician
 - Crew Leader
 - Energy Auditor
 - Quality Control Inspector

Training and Certification

Certify the Worker

- The Certification Blueprints synthesize the content of the SWS and the JTAs and lay out a road map for robust worker certifications.
- Nationally Recognized Industry Credentials that are Portable and Transferable Between the Public and Private Sectors.



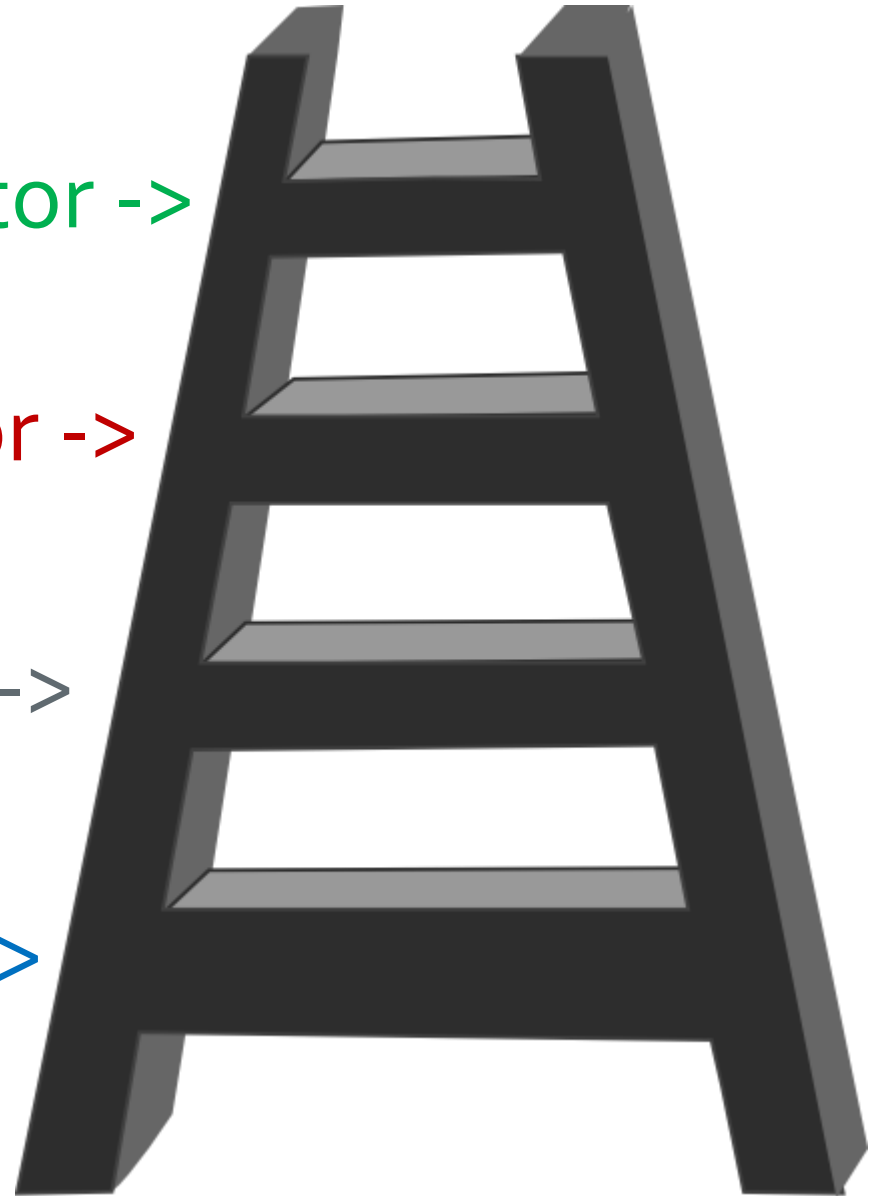
Home Energy Professional Career Ladder

Quality Control Inspector ->

Energy Auditor ->

Crew Leader ->

Retrofit Installer Tech ->



Training Center Accreditation

National Accreditation of Weatherization Training Centers



- Drive consistency across the country

**-Raise the bar nationally
for quality training and retrofits**



Proven Results

WEATHERIZATION FUNDING

10%

ADMINISTRATIVE COSTS

55%

PROGRAM OPERATIONS COSTS

15%

HEALTH & SAFETY COSTS

20%

TRAINING & TECHNICAL ASSISTANCE COSTS



\$4,695

AVERAGE WEATHERIZATION COST PER UNIT

8,500

JOBS SUPPORTED

\$264

ANNUAL ENERGY COST SAVINGS

18%

ANNUAL HEATING CONSUMPTION SAVINGS

7%

ANNUAL ELECTRIC CONSUMPTION SAVINGS

FOR EVERY

\$1.00

INVESTED IN WEATHERIZATION

\$1.72

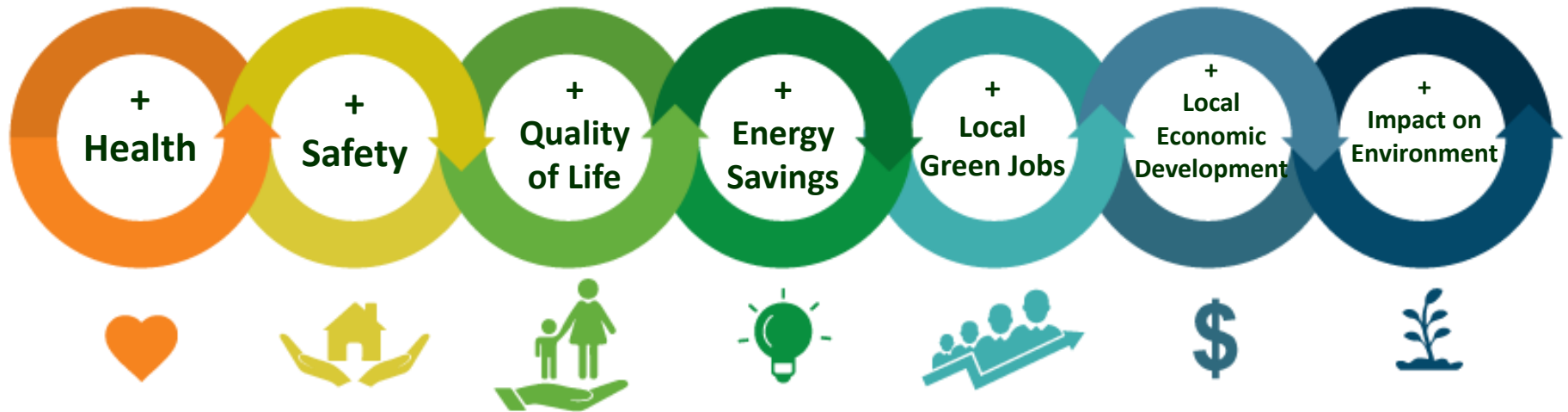
ENERGY RELATED BENEFITS

\$4.50

IS GENERATED IN ENERGY & NON-ENERGY BENEFITS

Proven Results – High ROI

\$4.50 IS GENERATED IN ENERGY & NON-ENERGY BENEFITS PER \$1 INVESTED



- Improved IAQ
- Asthma
- Hypothermia
- Skin/Eyes Irritation
- Less Sick Days
- Less Doctor/ER Visits

- CO Poisoning
- Fires
- Electrocutions

- Thermal Comfort
- Time at Home
- Family Life
- Indoor Air Quality

- Average Savings \$264/year

- 8,500 Direct Local Jobs
- 100,000 Indirect Jobs

- Local Jobs
- Community Reinvestment

- Savings equivalent to 24.1M barrels of oil annually
- Prevents emission of 18.5M+ tons of CO₂ annually

Delivered through a Trusted, Trained, Credentialed National network to the Highest Quality Standards!

Leveraging – Leveraging - Leveraging



2009
\$0.00

2013
\$1M

2019
\$10M

2021
\$50M?

EE Pilots

EE Programs

EE & Renewables Programs

My Why Picture! What's Yours?

