

SIGN-IN & EVALUATION REQUIREMENTS FOR CEUS

- ALL attendees MUST sign the PSD/IBTS attendance sheet
- Those requesting DOS CEUs MUST ALSO sign-in and out of the DOS attendance sheet



CEU

CREDITS

- PSD/IBTS post-session evaluation to receive their certificate of completion
- Those requesting DOS CEUs are encouraged to complete the DOS postsession survey

CEU Requirement



COURSE GOALS

- ☑ Familiarize audience with code provisions that permit the use of energy professionals
- ☑ Introduce the most common energy professionals and demonstrate their skill set and capabilities
- ☑ Discuss the benefits of using each energy professional in code compliance
- Identify how and where energy professionals fit into current code compliance processes.

NERGY PROFESSIONA

WHO ARE YOU? HELLO my name is V Name Organization / company How long have you been in the industry? What do you hope to get out of this course?

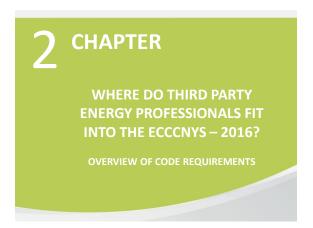
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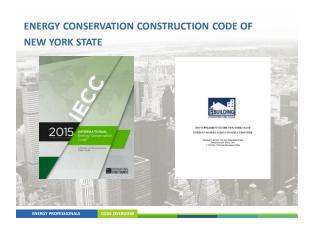
CONSIDER USING SPECIAL INSPECTORS AND ENERGY PROFESSIONALS

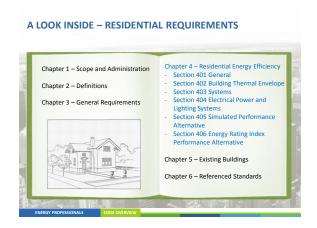
- The ECCCNYS-2016 is complex with significant requirements for
 - 104 Inspections
 - 402 Envelope
 - 403 HVAC
 - 404 Electrical Power and Lighting
 - 405 Simulated Performance Alternative
- New Compliance Option
 - 406 Energy Rating Index
- Required Inspections
- Jurisdiction time, man power, and resources are limited and plan review and inspection staff have many priorities

NERGY PROFESSIONALS

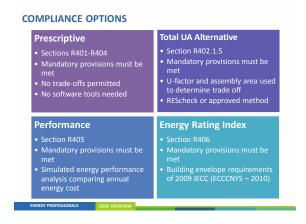


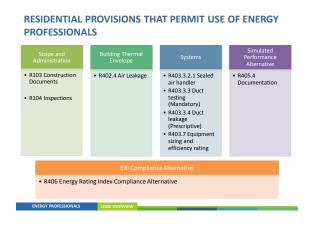


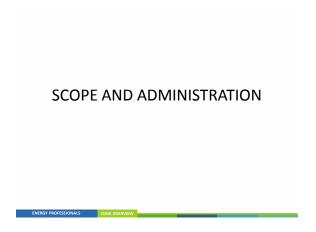












R103 CONSTRUCTION DOCUMENTS

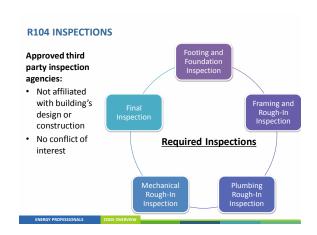
Documents must include:

- Insulation materials and R-values
 Fenestration II-factors and
- Fenestration U-factors and SHGCs
- Area-weighted U-factor and SHGC calculations
- Mechanical system design criteria
- Mechanical and service water heating system and equipment types, sizes, and efficiencies
- Equipment and systems controls
- Duct sealing, duct and pipe insulation, and location
- Air sealing details

ENERGY PROCESSIONALS CODE OVERVIEW



Code official may require all documents to be prepared and/or approved by a registered design professional.



FOOTING AND FOUNDATION INSPECTION

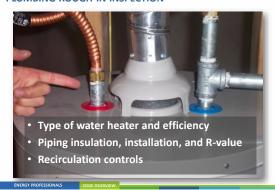


FRAMING AND ROUGH-IN INSPECTION

- Types of insulation and R-values
- · Correct location and proper installation
- Window and door glass U-factor and SHGC
- Proper installation of air leakage controls



PLUMBING ROUGH-IN INSPECTION



MECHANICAL ROUGH-IN INSPECTION

- · HVAC equipment type and size based on Manual J
- Required controls
- Duct and piping insulation and R-value
- Programmable thermostats
- Dampers
- Visual inspection for duct sealing, proper connections, and installation per Manual D



FINAL INSPECTION

- High-efficacy lighting
- Ceiling insulation and air sealing
- Thermostats
- · Other efficiency





IMPORTANCE OF CONSTRUCTION DOCUMENTS AND INSPECTION REQUIREMENTS

- ☐ Holds designers, builders, and contractors accountable for meeting code requirements
- ☐ Simplifies enforcement process
- ☐ Ensures major systems are meeting code requirements
- Saves time



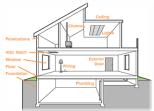
BUILDING THERMAL ENVELOPE

BUILDING ENVELOPE Conditioned space: An area or room within a building being heated or cooled, containing un-insulated ducts, or with a fixed opening directly into an adjacent conditioned space • Walls Above grade attic • Below grade • Mass walls • Ceilings Conditioned Spa Fenestration Floors • Slab • Crawlspace

R402.4 AIR LEAKAGE (MANDATORY)

All components must be installed in accordance with manufacturer's instructions and Table R402.4.1.1.

An approved third party is permitted to inspect components for compliance (R402.4.1.1).



- Homes tested to ≤3 ACH50
- Multifamily to .3cfm50/ft²
- Testing may be conducted by a third party after rough-in (R402.4.1.2 Testing).

R402.4.2 FIREPLACES

 □ Doors on factory-**♂** built fireplaces must be listed and labeled with UL 127.

> fireplaces to be listed and labeled with UL 907.





R402.4.5 RECESSED LIGHTING





Tight building envelopes: Save energy Lower utility bills Improve indoor air quality Reduce pollutants Increase comfort by reducing drafts and noise Help control moisture (reduce mold) Can reduce HVAC size — allow "right-sizing" Reduce callbacks

SYSTEMS

NERGY PROFESSIONALS CODE OVER

R403.3.2.1 SEALED AIR HANDLER

Air handlers must include a manufacturer's designation for air leakage of no more than 2% of the design air flow rate when tested in accordance with ASHRAE 193.



R403.3.3 DUCT TESTING (MANDATORY) R403.3.4 DUCT LEAKAGE (PRESCRIPTIVE)

Rough-In Test

- Total leakage: ≤4 cfm/per 100 ft² at 25 PA at rough-in
- Without air handler: total air leakage ≤3 cfm/per 100ft² at 25 PA

Post Construction Test

 Total leakage: ≤4 cfm/per 100 ft² at 25 Pa across entire system, including air handler, and all register boots taped or otherwise sealed

Written Report

Qualified third parties permitted to conduct duct testing

Exception: Test not required if air handler and all ducts are within conditioned space.

ENERGY PROFESSIONALS

CODE OVERVIEW

ACCA MANUAL D REQUIRED BY IRC

R403.7 EQUIPMENT SIZING AND EFFICIENCY RATING IRC M1601.1 DUCT DESIGN



Building loads calculated using ACCA Manual J or other approved methodology

HVAC equipment efficiency ratings must be equal to or greater than federal minimum



HVAC equipment must be sized to ACCA Manual S and calculated loads

ENERGY PROFESSIONALS CODE OVERVIEW





SIMULATED PERFORMANCE **ALTERNATIVE (PERFORMANCE)**

R405 SIMULATED PERFORMANCE ALTERNATIVE (PERFORMANCE)

R405.2 Mandatory requirements

Mandatory requirements of prescriptive path, including those that permit the use of third parties, must be met.

R405.4 Documentation

Approved third parties permitted to produce and compile compliance documentation.

RESNET Accredited Software

- EnergyGauge® USA V 5.0 IC3 v4.01

REM/RATE PERFORMANCE REPORT Performance Report Organization L.A. Raters 303 222 1111 H.L. Scorer 55.0 30.2 32.0 23.0 41.8% 22.8 7.4 24.5%

IMPORTANCE OF USING ENERGY PROFESSIONALS IN PERFORMANCE CALCULATIONS ☐ Energy simulations conducted by an experienced, knowledgeable professional ■ Documentation confirmed to accurately represent house

ENERGY RATING INDEX COMPLIANCE ALTERNATIVE

WHAT IS THE ENERGY RATING INDEX?

Compliance by target ERI score

AND

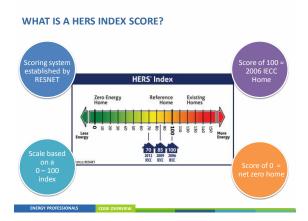
- · Meets mandatory provisions
- Hot water pipe insulation requirements
- Prescriptive envelope requirements from the 2009 IECC (ECCCNYS – 2010)
- Requires 3rd Party verification

The ERI score is defined as a numerical score where:

- 100 = 2006 IECC
 - 0 = net-zero home
- Each number lowe
 = 1% improvement
 in energy usage of

ENERGY PROFESSIONALS CODE OVERVIEW

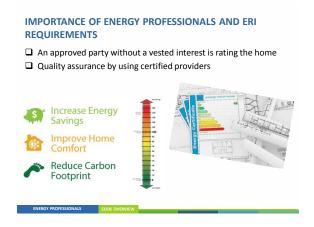
R406.5 VERIFICATION BY APPROVED AGENCY States and jurisdictions can specify which qualifying ERI method to use **RESNET HERS Index is the existing compliant ERI** method Used to rate Employs Based on over 1.5 qualified ANSI RESNET Nationally million **HERS** raters recognized Standard homes in the and provide 301-2014 U.S. to date QA review













3 CHAPTER

PILOT COURSE RESULTS

PILOT COURSE OVERVIEW

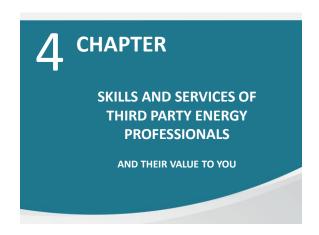
- Six statewide courses December 2015
- Employers of energy professionals discussed:
 - Experiences, questions and concerns with employing third parties
 - Obstacles to incorporating energy professionals into current industry processes
 - Thoughts on building a third party infrastructure.



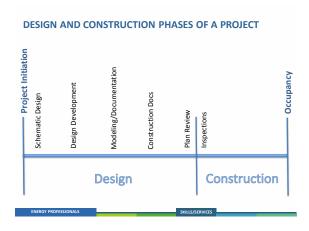
Feedback gathered from discussion, reports from trainers, and end of course surveys

PILOT RESULTS



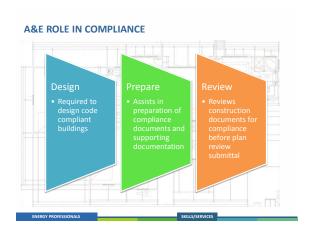


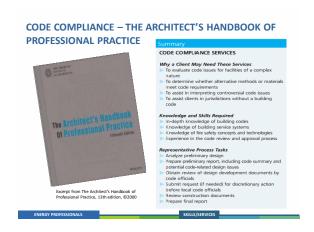




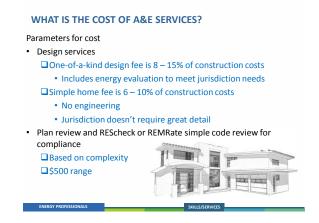


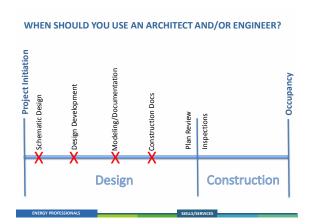


















BENEFITS OF USING MATERIAL SUPPLIERS AS ENERGY PROFESSIONALS

- lacksquare Material suppliers advise on materials purchases
- ☐ Provide accurate estimates per design drawings
- ☐ Ensure building materials meet code minimums
- Supply necessary documentation
- Provide proper building materials which ensure home-owner safety, comfortability, and energy efficiency







ENERGY PROFESSIONALS

SKILLS/SERVICE

Schematic Design Construction Design Design Design Design Design Construction Occupancy

SERVICE: PLAN REVIEW AND INSPECTIONS

Plan Reviewers

- Architects, engineers, or other construction specialists
- Approved third party plan reviewers
- Energy rater
- Building performance specialist

Inspectors

- Approved third party agencies that specialize in third party inspections for code
- · Energy rater
- Building performance specialist
- · DET verifier

ENERGY PROFESSIONAL

SKILLS/SERVICE

PLAN REVIEWER AND INSPECTOR SKILLS/CERTIFICATIONS

Plan Reviewers

- Knowledge of residential design process including load calculations, building materials, and construction techniques
- Understand code provisions at some level
- Understand what is necessary and important for compliance submittal
- · Should be ICC certified

Inspectors

- Expertise in the energy code
- Understand what to look for in the field and how to go about looking
- Should be ICC certified



SKILLS/SERVICE

PLAN REVIEWER AND INSPECTOR ROLE IN COMPLIANCE

Plan Reviewers

- Plan review
 - Section R103.3



Inspectors

- Inspections now required by code

 Section R104
- Envelope visual inspection
- Inspections required as part of the ERI compliance path

ENERGY PROFESSIONAL

SKILLS/SERVICE

VALUE OF EMPLOYING A PLAN REVIEWER AND INSPECTOR

Plan Reviewers

 Take energy code plan review pressure off of the jurisdiction

Inspectors

 Assists the jurisdiction in ensuring that energy code measures are installed per plan and specifications



ENERGY PROFESSIONAL

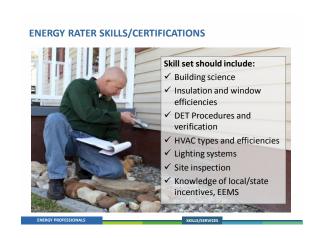
SVILLS/SERVICES

WHEN SHOULD YOU USE A PLAN REVIEWER AND INSPECTOR? Wood eling / Documentation ocs | Design |

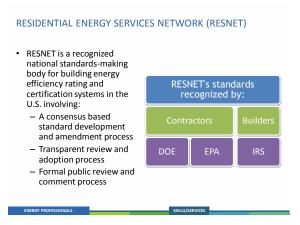


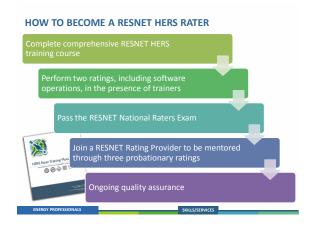
Duct leakage

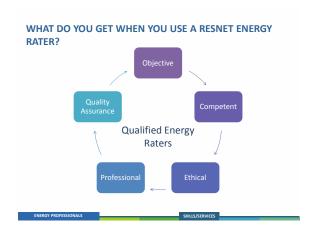


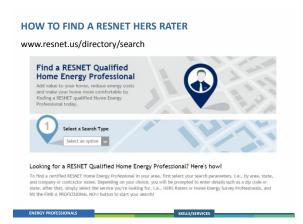


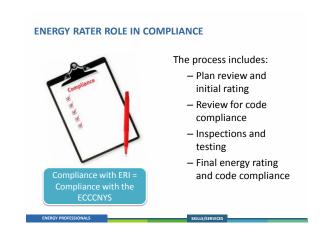


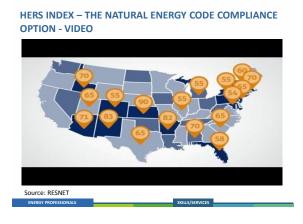


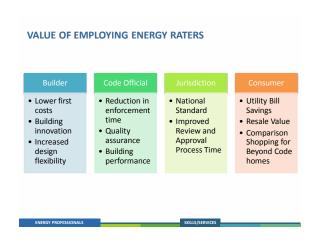












WHAT IS THE COST OF AN ENERGY RATING?

- · Cost data collection
 - Contractor met with 19 raters from NY
- · Parameters for cost
 - Consult with builder to prepare compliance documentation
 - Prepare plan submittal documentation that demonstrates how the project will meet the ERI score
 - Provide consulting services during the construction of the house that includes two site visits
 - Preparing documentation to demonstrate that the house complies with the ERI value

□\$500 and up for simple ERI; price increases for large homes and full HERS rating

ENERGY PROFESSIONALS

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WHEN SHOULD YOU USE AN ENERGY RATER? Schematic Design Construction Construction Design Construction







DET VERIFIER SKILLS/CERTIFICATIONS

Recommended qualifications for an approved provider:

- Certified RESNET HERS Rater
- Certified BPI Building Analyst (BA), Envelope (ENV), or Infiltration & Duct Leakage (IDL) Professional
- Other nationally recognized certification or designation approved by NY-DOS









RGY PROFESSIONALS S

CERTIFICATION SPOTLIGHT Certified BPI Building Analyst Professional

BUILDING PERFORMANCE INSTITUTE

- National standards development organization for residential energy efficiency and weatherization retrofit work
- Standards developed using consensus-based methodology
- Accredited by ANSI
- BPI develops:
 - $\boldsymbol{\mathsf{-}}$ professional certifications for individuals
 - companywide credentials for BPI GoldStar Contractors
 - home energy rating systems
 - quality assurance services
- Vital connection between contractors, technicians, training organizations, and programs

ENERGY PROFESSIONALS

SKILLS/SERVICES



Certifications include:

- Building Analyst
- Envelope
- Professional
 Infiltration and
- Duct Leakage
- Energy Auditor
- Rater
 Multifamily
- Building Analyst
- Many others

many others

CERTIFIED BPI BUILDING ANALYST PROFESSIONAL

BPI Building Analysts:

- · Evaluate the energy efficiency, health, and safety of a home
- · Use diagnostic equipment to identify areas for energy savings
- Use modeling software to produce an audit report
- Develop a prioritized scope of work for customers



PROFESSIONALS SKILLS/SI

HOW TO BECOME A BPI BUILDING ANALYST

Building Analyst exams verify:

- Knowledge of fundamentals of building science
- Skills and abilities to conduct comprehensive building performance audits, including DET
- Ability to assess whole-building ventilation, measure airflow
- · Combustion safety testing (CAZ)
- Data collection
- Professional ethics, conduct & communications

ENERGY PROFESSIONALS

SKILLS/SERVICE



DET VERIFICATION IN CODE COMPLIANCE

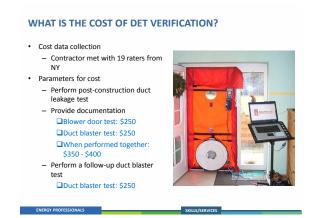
- Ensure all buildings meet energy code requirements for maximum allowable air leakage rates
 - Building envelope
 - Duct systems that run in unconditioned space or external to building

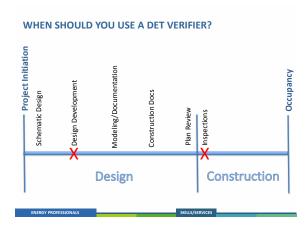


ENERGY PROFESSIONALS

KILLS/SERVICE

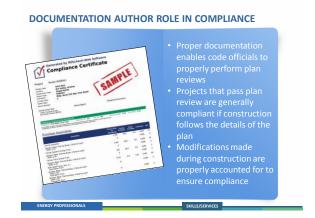




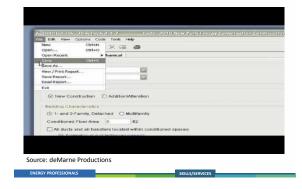


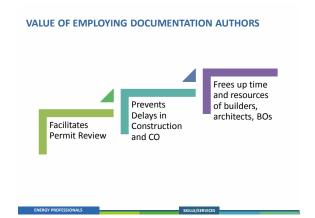




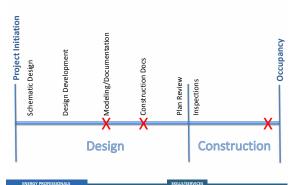


DEMONSTRATING COMPLIANCE USING RESCHECK





WHEN SHOULD YOU USE A DOCUMENTATION AUTHOR?



SUMMARY OF ENERGY PROFESSIONAL AND SPECIAL INSPECTOR BENEFITS

Using third party energy professionals and special inspectors:

- Ensures code requirements are met and energy savings are realized
- Improves review and approval process times
- Reduces time needed to verify compliance
- Lowers operating costs
- Encourages building innovation and increases flexibility in compliance
- Ensures smooth design and construction process (prevents violations, delays, stop-orders, etc.)
- Frees up time and resources of the building official and jurisdiction

ENERGY PROCESSIONALS

5 CHAPTER CASE STUDIES

HOW TO INCORPORATE ENERGY PROFESSIONALS AS PART OF CODE COMPLIANCE

In general, jurisdictions follow one of the following models:

- · Jurisdiction makes mandatory and
 - includes in permitting fees
 - provides list of approved/vetted individuals applicant pays
 - allows choice of compliance path fee based on path selected and paid for by applicant
 - uses Special Inspector program model establishes lists of approved specialists.

ENERGY PROFESSIONALS

CASE STUDIES

Energy Professionals Required by Code

ENERGY PROFESSIONAL

Case Study

TOWN OF NEW PALTZ, HUDSON VALLEY, NEW YORK: ENERGY PROFESSIONALS AND ENFORCEMENT



- Employs local energy professionals – HERS raters and BPI professionals
 - Plan reviews and REScheck reports
 - Full performance code compliance
- Takes plan review and site inspections off CBO plate
- Streamlines and shortens compliance
- MUCH higher quality QAC
- Provides options for builders
- Paid for by homebuilder/owner

ENERGY PROFESSIONALS

CASE STUDY

TOWN OF GREENBURGH, HUDSON VALLEY, NEW YORK: ENERGY PROFESSIONALS AND ENFORCEMENT

- Adopted NY ENERGY STAR as residential energy code – Green Building Plan
- Employs local energy professionals

 HERS raters
- Requires HERS score of 70 and ventilation, CAZ test – adapting to new E-Star standard currently
 - Ventilation requirements
 - MUCH higher quality QAC
 - Provides options for builders
 - Paid for by Homebuilder/Owner





CASE STUDY

TOWN OF BEDFORD, WESTCHESTER COUNTY, NEW YORK: HERS INDEX AS CODE

- Employs local energy professionals HERS raters
- Adopted HERS 70
 - Requires HERS certification
 - ENERGY STAR ventilation and CAZ test
 - MUCH Higher Quality QAC
 - Paid for by Homebuilder/Owner
- Incentivized with quicker review time
- Looking Forward to ERI as Update

ENERGY PROFESSIONAL

CASE STUDY

TOWN OF BABYLON, LONG ISLAND, NEW YORK: HERS **INDEX AS CODE**

- Chapter 89: Building Construction Article VI: HERS 70 ENERGY **STAR Requirements**
 - Initially Incentivized by LIPA
 - HERS Ventilation, HVAC sizing, CAZ
 - Paid for HERS Rating Initially
 - Now paid by builder/homeowner
- · All major Long Island towns adopted because of initial LIPA incentive
- · Supported by LIBI -**Builders Association**



CITY OF BOULDER, COLORADO: HERS INDEX AS CODE

City of Boulder, Boulder County and other local governments:

· Require HERS Index target as part of jurisdiction's building code

The City of Boulder - Green Building and Green Points Program

- "Encourages the use of... building methods and technologies that conserve energy, water and other natural resources"
 - · Homes must meet a HERS Index score
- Code language found at https://wwwstatic.bouldercolorado.gov/docs/PDS/forms/902 GP%20Gui deline%20Booklet.pdf

BOULDER COUNTY, COLORADO: HERS INDEX AS CODE

- Boulder County maintains list of approved, vetted energy professionals
 - must attend energy code specific training and pass course
 - must receive continuing education credits regularly



CITY OF BOULDER, COLORADO: ENERGY AUDITS AS CODE

- · Energy audits required for additions and remodels
- · Audits must be performed by a BPI certified professional or RESNET HERS rater
- · Proof of energy audit must be provided with building permit application
- Code language found at: https://wwwstatic.bouldercolorado.gov/docs/PDS/forms/902_GP%20G uideline%20Booklet.pdf

DALLAS, TEXAS: THIRD PARTY PROVIDER PROGRAM

- Longtime use of 3rd parties throughout TX
- Dallas 3rd parties mandatory in "Green Building Program"
 - Registration as third party provider required
 - Attendance at orientation mandatory
 - Compliance with 2009 IECC must be demonstrated by City of Dallas registered Third Party Energy Provider



DALLAS, TEXAS: THIRD PARTY PROVIDER PROGRAM





- Two years experience Design
- Management OR



DALLAS, TEXAS: THIRD PARTY PROVIDER PROGRAM

· Example of third party directory

LIST OF GREEN BUILDING PROVIDERS - PHASE 2				
Contractor	Green Provider	Phone	Email	Type License
ACE COMPANIES	DELUGE, CHERIE	(972) 647-8378	acecompaniestexas@gmail.com	Commercial and Residential
ALERT RESIDENTIAL INSP	HACKNEY, JERRY D	(817) 808-0274	alerinspection@hotmal.com	Commercial and Residential
ALIAS ARCHITECTS	ALALI, BAN	(214) 500-1273	BALALIBALIASARCH DOM	Commercial and Residential
AOS ENGINEERING	SPARKS, SANDRA	(972)-399-6745	SSPARKS@AGS-ENGINEERING.COM	Commercial and Residential
BLUEGLL ENERGY MANAGEMENT	FARMER, CLAYTON	(281) 802-1224	cfarmer@bluegillenergy.com	Commercial and Residential
BR ARCHITECTS & ENGINEER	RUSSELL, BRADFORD	(972) 235-9308	brad@brarchitects.com	Commercial and Residential
CITY SERVICE LLC	WESS, JOHN	(972) 937-8283	johnwebbjr@energysmart.us.com	Commercial and Residential
CONTECTS, LLC	HENDERSON, CHIP	(210) 824-8758	chip@contects.com	Commercial and Residential
ENERGY INSPECTORS TEXAS	MOGHE, CODY	(409) 441-9795	OWCGHE@ENERGYINSPECTORS.COM	Commercial and Residential
ENERGY IQ	SENGLIN, CRAIG	(214) 929-7317	CRAIG.SENGLINGENERGYIQ-USA.COM	Commercial and Residential
ENGUISTICS CONSULTING	BROWN, LINDA	(214) 208-4518	Inda_brown2011@earthlink.net	Commercial and Residential
EVANS SERVICE COMPANY, LLC	EVANS, MILTON K	(972) 351-9302	rebecca@evansaervicecompany.com	Commercial and Residential
EWC ARCHITECTURAL SERVICES	CUMMINOS, ELIZABETH	(214) 562-5095	elizabeth@ewc-architect.com	Commercial and Residential
FOX ENERGY SPECIALISTS	LYONS, DONNIE	817-913-9178	dlyans@faxenergyspecialists.com	Commercial and Residential
FOX ENERGY SPECIALISTS	CHAWLA, PATRICIA	(817) 546-0150	PATRICIA@FCHENERGYSPECIALISTS.COM	Convercial and Residential
OREEN ENERGY ASSOCIATES	ATKINSON, RICK	(817) 219-2435	rcatkinson@peoplepc.com	Commercial and Residential
HUITT-ZOLLARS INC	BROOK, BRIDGETT	214871-3311	bbrock@Hulti-Zollars.com	Commercial and Residential
D STUDIO 4	TIFREA, MALINA	(972) 870-1288	rtfrea@idstudio4.com	Convertial and Residential
NSPEC SUSTAINABILITY GROUP LLC	CORNETT, ALLEN	972-754-7839	acomett@inspeconline.com	Commercial and Residential

Special Inspector Model

INTERNATIONAL BUILDING CODE AS MODEL

CHAPTER 17, SPECIAL INSPECTIONS AND TESTS

- Sets minimum quality standards for the acceptance of materials used in building construction
- · Establishes requirements for special inspections, structural observations, and load testing
- · Identifies duties for:
 - Applicant of record
 - Special inspection agency
 - Permit holder

A special inspector is a person who has been approved by the building official to perform certain types of inspection as detailed in IBC Section 1704.

CHAPTER 17, SPECIAL INSPECTIONS AND TESTS-WHAT ARE SPECIAL INSPECTIONS? VIDEO



IBC SPECIAL INSPECTION CATEGORIES



INTERNATIONAL ACCREDITATION SERVICE AND SPECIAL INSPECTION AGENCY ACCREDITATION PROGRAM

- IAS developed accreditation program for agencies providing special inspections
- · IAS Special Inspection Agency Accreditation Program based primarily on requirements of the IBC
- Program requires special inspection agencies to operate under a quality management system documented in a manual and requires agency to be assess in the field

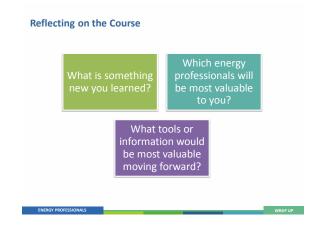


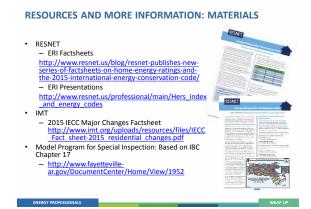
IAS accreditation is based on the assessment of a special inspection agency's inspection procedures, the competence of its inspection staff, and its reporting procedures.











Residential provisions of the IECC PowerPoint https://www.energycodes.gov/sites/default/files/becu/2015 IECC residential requirements.pdf NYC Special Inspection and Progress Inspection Requirements Video https://www.youtube.com/watch?v=_QMAXLSDDo&ebc=ANyPxKo9WnziWxDVCBS7hoOTor1INb9cShJo_oeYltsOwkO9DvWSQLNEakh-taRDRWWKkSNLFTfPevetMSfPN8fU3_mUUBWQ NYC Special Inspections NYC Video/ Alan Margolin and Assoc. https://www.youtube.com/watch?v=xH_ChKXspGU Dallas, TX Building Inspection Information http://dallascityhall.com/departments/sustainabledevelopment/buildinginspection/pages/Inspections.aspx Difference between BPI and RESNET http://www.everbluetraining.com/blog/difference-between-bpi-and-resnet

RESOURCES AND MORE INFORMATION: NATIONAL AND INTERNATIONAL ORGANIZATIONS

- ICC/ IECC www.iccsafe.org
- ASHRAE www.ashrae.org
- NYSERDA www.nyserda.ny.gov
- IBTS www.ibts.org
- Cadmus www.cadmusgroup.com
- ${\sf CLEAResult-\underline{www.clearesult.com}}$
- K energy www.kenergy.us
- PSD www.psdconsulting.com
- $\mathsf{RESNET} \underline{www.resnet.us}$
- BPI www.bpihomeowner.org
- ENERGY STAR www.energystar.gov
- USGBC/LEED www.usgbc.org/leed
- ANSI www.ansi.org
- BECP www.energycodes.gov
- BCAP www.bcap-energy.org

ENERGY PROFESSIONALS

RESOURCES AND MORE INFORMATION: FIND AN ENERGY PROFESSIONAL

- RESNET Certified Professionals <u>www.resnet.us/directory/search</u>
- BPI Certified Professionals www.bpi.org/individual locator.aspx
- · Home inspectors www.nachi.org/find-an-inspector
- LEED Certified Professionals www.usgbc.org/profile
- ENERGY STAR RA or PE –

www.energystar.gov/index.cfm?fuseaction=PE_DIRECTORY

- ENERGY STAR New Homes Partner https://www.energystar.gov/index.cfm?fuseaction=new homes partners. locator&s=footer
- NYC Special Inspector Agency www.nyc.gov/html/dob/html/development/special_insp_overview.shtml
- New York Registered Professional http://www.op.nysed.gov/opsearches.htm

RESOURCES AND MORE INFORMATION: VIDEOS

- · Proper System and Duct Sizing, slide 36
 - Outer Banks Heating & Cooling. "Proper System and Duct Sizing." Online video clip. YouTube. YouTube, 4 February, 2011. Web. 1 February 2016.
- · HERS Index Score, slide 46
 - RESNET. "Looking for a Home? Ask for the HERS Index Score." Online video clip. YouTube. YouTube, 9 October, 2015. Web. 1 February 2016.
- Blower Door Testing, slide 56
 - FineHomebuilding.com. "Blower Door Testing." Online video clip. YouTube. YouTube, 7 November, 2013. Web. 3 February 2016.
- · How to Use a Duct Blaster, slide 57
 - SoCal Edison. "Southern California Edison's Tool Lending Library presents: How to use a Duct Blaster." Online video clip. YouTube. YouTube, 14 December, 2013. Web. 1 February 2016.

RESOURCES AND MORE INFORMATION: VIDEOS

- · HERS Index, slide 78
 - RESNET. "HERS Index The Natural Energy Code Compliance Choice." Online video clip. YouTube. YouTube, 17 June, 2015. Web. 3 February
- Energy Audit, slide 87
 - Home Performance. "More than an Energy Audit." Online video clip. YouTube. YouTube, 10 January, 2013. Web. 1 February 2016.
- REScheck slide 99
 - deMarne Productions. "ResCheck Lesson 1 Part 1." Online video clip. YouTube. YouTube, 7 October, 2013. Web. 15 February 2016.
- Special Inspections, slide 125
 - Alan Margolin & Associates. "What are Special Inspections? AMAA." Online video clip. YouTube. YouTube, 5 January, 2016. Web. 1 March 2016.

SIGN-IN & EVALUATION REQUIREMENTS FOR CEUS

- · ALL attendees MUST sign the PSD/IBTS attendance sheet
- Those requesting DOS CEUs MUST ALSO sign-in and out of the DOS attendance sheet
- ALL attendees MUST complete PSD/IBTS post-session evaluation to receive their certificate of completion
- Those requesting DOS CEUs are encouraged to complete the DOS postsession survey



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