



INTERVIEW AND VISUAL ASSESSMENT TOOLS

- Most interview tools have a visual assessment component.
- Bottom line is what works for you to do an assessment in a structured way.



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SAMPLE CHECKLISTS

- · Allies Against Asthma
- ASTM D7297 IEQ Assessment
- CEHRC (available in the Essentials course materials)
- Children's Mercy Hospital Environmental Health Assessment form
- Environmental Protection Agency Home
 Visit
- Harvard School of Public Health
- U.S. Department of Housing & Urban
 Development Healthy Homes Rating System
- · King County/Seattle
- Pediatric Environmental Home Assessment form





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Developing a Hypothesis

THE HYPOTHESIS

- Start with a hypothesis that covers the purpose of the assessment (not the complaint).
- A hypothesis is a testable statement.

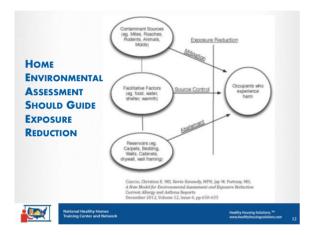
Remember: only health providers can make health and environment connections.



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ASSESSMENTS SHOULD:

- Identify the nature and extent of individual hazards: Risk Assessment
- Determine the relative risk of different hazards: Risk Analysis
- Evaluate the interactions and synergisms between individual hazards: <u>Risk</u> <u>Characterization</u>

Source: HUD Healthy Homes Issues: Residential Assessments, March 2006



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RISK ASSESSMENT Risk Assessment is a systematic method of collecting and interpreting scientific information relating environmental hazards to human health. Risk Assessment is a process of quantifying the likelihood of harmful effects from a hazard. Risk assessment is NOT making medical statements or connections. Risk Assessment in the Federal Government: Managing the Process", National Research Council, © 1983 HOME ASSESSMENTS ARE RISK ASSESSMENTS Risk Assessment Steps* Hazard Identification Hazard Evaluation • Consider dose-response • Exposure Assessment • Risk Characterization *National Research Council, 1983 **RISK ASSESSMENTS INCLUDE RISK-BENEFIT ANALYSIS WITH THE GOAL:** to reduce exposure to hazard whenever possible • Example: Avoid sun exposure to accept substantial hazard only for great benefit • Example: Flying versus driving to accept minor hazard for modest benefit; and • Example: Hair dying or coloring to accept no hazard at all when the benefit seems relatively trivial • Example: Tanning beds (is there a health risk?) Philip Handler (1979), President of U.S. National Academy of Sciences 1969 to 1981

The Assessment Process	
The Assessment Process	
1 2 3	
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OBSERVE, INTERPRET AND QUESTION	
Observe, interpret and question steps are a	
mini-sequence, within the evaluation.	
• First - observe hazards and identify them.	
• Second - interpret what you see.	
• Third - follow up questions for the resident	
based on what you've observed.	
- Water stain example, ask the resident "Did this water	
stain appear recently or has it been there a while?	
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MORE ON INTERPRETATION	
Interpretations are a combination of	
professional knowledge, experience and logic.	
Some interpretations may require research	
evidence to support conclusions.	
What myths have you encountered?	
The material and the desired and the second	
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WHAT ABOUT RENTAL PROPERTY?

- · Assessment allowed if non-destructive
- Family should provide report to Landlord
- Issues identified that are code violations may need to be reported to code enforcement.



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ACUTE HAZARDS: (REVIEW)

Hazards that require immediate attention due to the potential for posing an imminent danger to life and health.

Examples include:

- <u>Physical</u>: loose stairs, child access to crawl spaces, structural deterioration or significant damage etc.,
- <u>Biological hazards:</u> Sewer back ups on carpets where people are using the room, etc.,
- <u>Chemical hazards:</u> poisons, drugs, chemicals, lead paint/dust hazards, detectable carbon monoxide or gas leaks, etc.,



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CHRONIC HAZARDS: (REVIEW)

Hazards which do not pose an immediate danger to life and health but do <u>promote</u> allergies, asthma, lead poisoning, pesticide exposure, or other <u>chronic</u> health conditions.

Examples include:

<u>Physical:</u> Poor HVAC maintenance, windows in disrepair, foundation cracks, minor roof damage, plumbing leaks

<u>Biological:</u> Observed/reported pests, condensation and microbial growth, open cracks/gaps in siding, wet/damp drywall

<u>Chemical:</u> poorly operating stove, lack of ventilation/ exhaust fans in bathrooms and over gas stoves



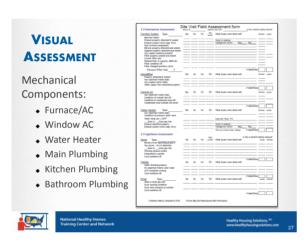
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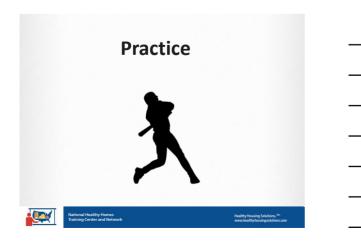
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Where should a home assessment start? • Outside? • Living Room? • Basement? • Child bedroom?













WHAT ARE WE ASKING? Are some rooms colder than others? Have you seen any rats or mice around the outside or inside of your home? Have you had any plumbing problems? Other examples?

VISUALLY ASSESS ALL SUPPLY & WASTE WATER SYSTEMS Site Visit Field Assessment form Date of lite vite: Apply the lite of the vite: Supply west upon supply west open Supply west upon vest upon vest open Supply west upon vest upon vest



WHAT ARE WE LOOKING FOR?

- Visual evidence of damage
- Evidence of moisture issues
- General condition of exhaust vents
 - · Check for negative flow
- Are they connected?
- Furnaces, boilers, fireplaces vented
 - Check both ends if possible







HOME APPLIANCES, LIMITED ASSESSMENT



WHAT ARE WE LOOKING FOR AND ASKING?

- Bath, dryer, and range exhaust fans?
 - Do they work?
 - Are they used?
 - Exhaust to outside?
- Gas stove used as heater?
- Smoke alarm ever go off?
- CO Monitor present and working?
 - Ever go off?
- · Do they bake or cook for long periods?



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Site Visit Field Assessment form 3.0 EHA Room Survey: Child's Bedroom Ves 10 Apple. What issues were observed: Site Visit Field Assessment form Site is this a health/Sefty Hazard! Take Soon It Ventilated No. 1 In Apple. What issues were observed: Site Visit Field Assessment form Loud or Survey: Mactor Bedroom Soon It Ventilated Soon It

FLOOR PLAN DRAWING Beneficial for: Locating environmental contaminants in relation to rooms Understanding exposure pathways Remembering Home Layout

THINGS TO LOOK FOR IN ROOMS

- Windows, do they work?
- Evidence of condensation
- Evidence of moisture stains
- Number of moisture reservoirs
- Number of dust reservoirs
- Lingering odors or stale air
- Level of cleanliness
- Level of clutter
- Smoke alarms observed?
- Unvented gas or kerosene heaters
- Overload electric cords





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GOOD THINGS TO ASK ABOUT ROOMS

- Is this how this room typically looks?
- Do the windows work?
- Has your smoke detector ever gone off?
- Has your CO detector ever gone off?
- Have you noticed lingering odors?
- Do your windows ever fog?
- Do you have other examples?



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Koop it Dry Observed damp Any visible mois	smell sture stains	Yes No	NA	What issues were ob	# Iden served?	chronic	Acute	Take Action?
Any reported/vi Observed room Any mold smell Any observed su	isible window leaks humidifier ispect visible mold							
Visible mold rankii Area affecte	0 <2 sq.ft. <10	>10 >30	>100	"Note any moisture meter	readings			
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