

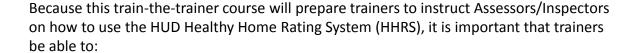
This Module is designed to prepare trainers to teach Assessors/Inspectors the importance of and linkage between a healthy homes assessment and use of the HUD Healthy Home Rating System (HHRS).

The module will run approximately 30 to 45 minutes to include questions and answers.

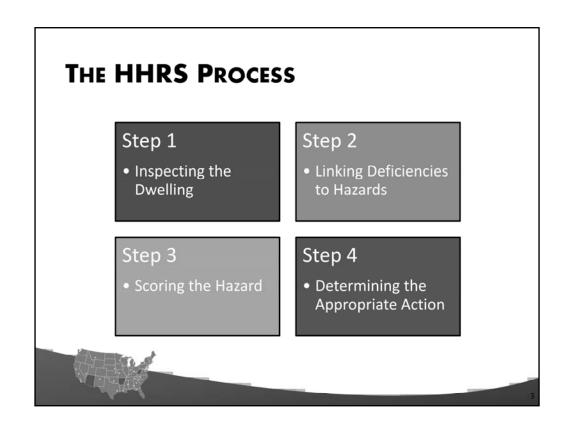
## **LEARNING OBJECTIVES**

### By the end of this module, students will be able to:

- Explain the importance of the following four terms to the HHRS: element, ideal, hazard, deficiency
- Use the 29 hazards chart and the Operating Guidance, identify vulnerable populations and explain their significance
- Describe the relationship between deficiencies and hazards using specific examples



- 1. Use terminology correctly: element, ideal, hazard, deficiency
- 2. Identify the importance of vulnerable populations and explain their significance when rating hazards
- 3. Identify what types of assessment information are required before an Assessor/Inspector can use the HHRS to rate deficiencies according to hazard type, likelihood of harm, and potential outcome of the harm. Explain that sufficient details and an adequate description of each housing deficiency <u>must</u> be collected before an Assessor/Inspector can rate the deficiencies using the HHRS and substantiate the results
- 4. Recognize the need to consider a 12-month timeframe when evaluating deficiencies
- 5. Explain the importance of creating and using established conventions when inspecting the dwelling and discuss the need to assess other spaces in multifamily buildings and the unique aspects of SROs



## **POP QUIZ! REVIEW OF KEY TERMS**

- Element
- Ideal
- Hazard
- Deficiency

Remind students that a deficiency is any problem with the house that they identified in the inspection (step 1)

THESE TERMS WERE COVERED IN MODULE 1 – this is a review.

Element-For example, a wall, a window, a staircase, a bath, means of lighting, and means of space heating are all 'elements'.

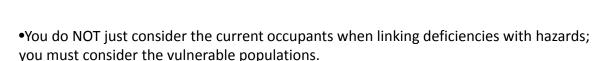
**Hazard**: Any risk of harm to the health or safety of an actual or potential occupant that arises from a deficiency. In some cases, as well as being a hazard in its own right, a hazard may increase the likelihood of an occurrence of, or the severity of harm likely to result from another hazard.

## REVIEW OF OCCUPANTS AND DEFICIENCIES

DON'T consider just the current occupants; consider the vulnerable populations.

HHRS goal: make the dwelling as safe and healthy as possible for all potential occupants

Consider current occupants when determining actions to take.

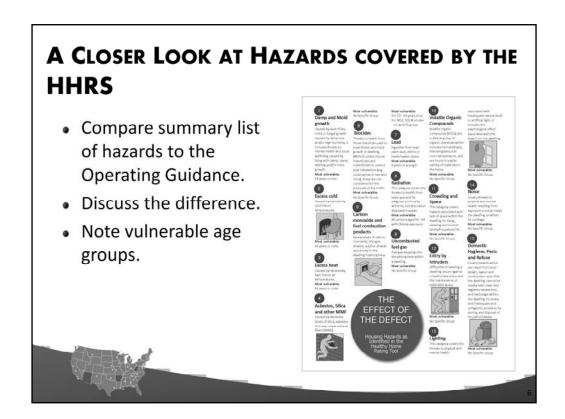


- •The goal of the HHRS is to make the dwelling as safe and healthy as possible for all potential occupants.
- •Current occupants can be considered when determining what actions to take to address hazards identified.

The most vulnerable occupant should be considered whether present or not at the time of the inspection.

The only HHRS hazard that DOES take into account current occupants is Crowding and Space. There are 2 steps to this assessment: 1) is the dwelling suitable for occupation as constructed, 2) is the current occupation consistent with the design of the dwelling or is it overcrowded?

In practice, the most vulnerable occupant will be the ones currently living in the dwelling, since the reason you are doing the assessment in the first place stems from some issue identified with the dwelling already. In rental tenancy, there is often significant turnover and making the home safe and healthy for the current occupants does nothing to make it safe and healthy for the next residents who may be of a completely different age or vulnerability.



Locate the Hazard Summary Chart in Participant Binder.

Pick one of the hazards and compare the summary chart to the one in the operations manual and talk about the difference. Point out that many times you may want to refer to the operations manual, especially as you learn the various hazards, as it will provide more details. Can also be helpful if you are having a hard time deciding between particular hazards.

## OPERATING GUIDANCE - HAZARD PROFILES Appendix C: Hazard Profiles Each Profile contains: • A description of the hazard • Potential for harm • Causes • Preventive measures and ideal conditions

· Relevant matters affecting likelihood and outcomes

Hazard assessment

The description of the operating guidance and the hazard profiles should be introduced during the introduction of the course and revisited here. It would be quite helpful if the students put colored or regular tabs in the operating guidance for the sections you will be referring to during the class. This would include the following:

Page 14-the scoring formula

Page 17-the outcome %

Page 19-the hazard bands

Page 33-the explanation of classes of harm

Page 51-index to hazards profiles

As well as any other area of the guidance you would like for them to tab. The operating guidance can be quite intimidating when first introduced to it, but the instructor can minimize the intimidation by highlighting key areas that will be used during the class.

When you get to the index to the hazard profiles, page 51, refer to hazard #1 (damp and mold growth) and walk students through the components of the profile. Make sure they understand the profiles for each of the 29 hazards are set up the same way with the same components.

During each module, it is important to highlight the sections of the hazard profile relevant to that section.

## SINGLE DEFICIENCY AND MANY HAZARDS

A single deficiency may contribute to:

- hazards of differing degrees and,
- more than one hazard

Example: A single deficiency of disrepair to a ceiling could lead to other hazards.

A single deficiency may contribute, to differing degrees and, to more than one hazard. Example: A single deficiency of disrepair to a ceiling could, depending on the nature and extent of that disrepair, lead to other hazards.

Discuss with the class have them give you what other Hazards this could lead to.

Walk through these examples:

- excessive cold (through increased heat loss);
- fire (by allowing fire and smoke to spread to other parts of the dwelling);
- lead (from lead paint);
- infections from other sources (by providing means of access and harborage for pests); and
- noise (because of an increase in noise penetration between rooms or floors).

Guidance on the matters to be taken into account in assessing the potential contribution to a hazard by a deficiency is given in the Causes and the *Preventive Measures and the Ideal sections of the* Hazard Profiles in Appendix C. However, over time research may be published that will overtake the evidence used in the profiles.

**Note** – It is imperative that users of the Rating System keep up to date with published research and other relevant information which can be used to supplement that given in the Hazard Profiles (Appendix C) and which may influence their judgment as to likelihood and/or spread of harms.

## MANY DEFICIENCIES AND SINGLE HAZARD

Several deficiencies may contribute to the same hazard.

Example: Disrepair to a ceiling, an improperly-fitting door, and the lack of a smoke detector may all contribute to the hazard of fire

Each could lead to smoke and flames spreading to other parts of the dwelling without means of detection and warning.

## May be similar deficiencies in various locations in dwelling - all contribute to the same hazard. Example 1: Dampness may affect walls in several rooms and areas in a dwelling. Example 2: May be deficiencies to: steps to entrance path to dwelling, to the main stairs and to the rear doorsteps.

For example 1, It is the cumulative contribution of those deficiencies to the hazard of damp and mould growth that should be assessed.

For example 2, It's the cumulative contribution of these deficiencies to the hazard of falls associated with stairs/steps that is assessed.

## For example, what are the functions of

For example, what are the functions of an internal wall?

List these on a flip chart/dry-erase board for the students to see.

Fire Protection Structural support Protection from weather Electrical protection Pest Protection

# What are the potential hazards from deficiencies to an internal wall? Refer to your Hazard Chart in the Participant Binder

List these on the same flip chart sheet with a line between the previous list and this one.

Deficienci	es to an inte	rnal wall can	lead to haza	ards from:	
Excessive cold	Fire	Structural failure	Pests	Noise	
		<u>+</u>			
The hazards that result depend on how the wall was constructed and the nature, location and extent of the deficiency(ies).					

Compare to the list that the students gave.	
<u> </u>	

## LINKING DEFICIENCIES WITH HAZARDS What are the functions of a floor?

List on a flip chart sheet as before.	

## LINKING DEFICIENCIES WITH HAZARDS

What are the potential hazards from deficiencies to a floor?



Defi	ciencies t	o a floo	r can lea	ad to ha	ızards fr	om:
Falling	Excessive cold	Fire	Structural collapse	Radon	Pests	Noise
					1	
	nazard tha s constru e	cted an		ture, lo		

Compare to student responses.	

## LINKING DEFICIENCIES WITH HAZARDS What are the functions of a window?

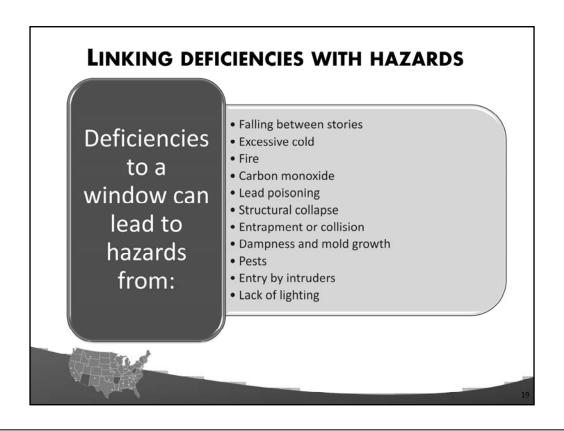
List on hip chart sheet as before.	

## LINKING DEFICIENCIES WITH HAZARDS

What are the potential hazards from deficiencies to a window?



List on flip chart/dry-erase board as before.



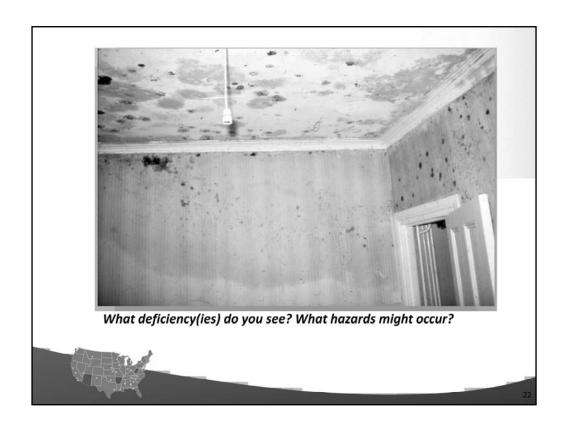
Compare to student responses.	





Have the students refer to their printed out list of the 29 hazards covered by the HHRS – to get them used to the hazard names and the most vulnerable group information. We're only concerned with connecting the deficiency(ies) with the appropriate hazard(s) at this point.

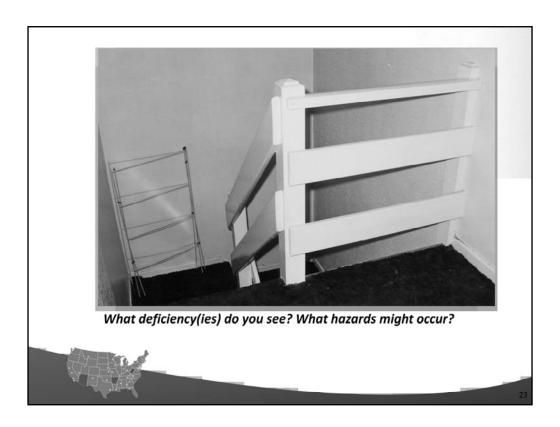
This deficiency leads to "Falls on Level Surfaces".



Have the students refer to their printed out list of the 29 hazards covered by the HHRS – to get them used to the hazard names and the most vulnerable group information.

This deficiency leads to "Mold and Moisture" and POSSIBLY "Lead".

What conditions affect the LIKELIHOOD that a person in the vulnerable population (under 16 years) may be hurt as a result of this deficiency?



Staircase and landing in single family house. One deficiency leads to multiple hazards. What are they?

Have the students refer to their printed out list of the 29 hazards covered by the HHRS – to get them used to the hazard names and the most vulnerable group information.

This deficiency leads to "Falling between levels" AND "Falling on Stairs".

What conditions affect the LIKELIHOOD that a person in the vulnerable population (over 60 years for Falling on Stairs BUT under 5 years for Falling between levels) may be hurt as a result of this deficiency?



WOW!!!!! What hazards do we see, electricity was live and the shower was being used. Open electrical source was actually 220

## **REVIEW**

- \_\_\_\_\_: Any component or constituent part, facility or amenity of a dwelling.
- A \_\_\_\_\_ is a failure of an element to meet the Ideal.
- \_\_\_\_\_: Any risk of harm to the health or safety of an actual or potential occupant (over the next 12 months) that arises from a deficiency.

- Element
- Deficiency
- Hazard

## **REVIEW**

- How many hazards are covered by the HHRS?
- Explain the importance of considering vulnerable populations.
- Give specific examples of at least two deficiencies and explain how they are related to hazards.



- 29
- The dwelling should be safe for the most vulnerable population
- Windows, walls, floors, etc (as discussed on previous slides)