



Basic Plumbing Principles

Inspection Theory & Practice

Great Lakes Chapter of ASHI - Oct. 2011

presented by

Roger Hankey, CAM

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Class demographics

- I'm not a plumber, but I study plumbing.
- I don't design or install. I observe.
- How many plumbers?
- How many plumbing inspectors?
- How many members of IAPMO?
- How many inspecting less than 5 yrs?
- Who routinely sees wells & septic systems?
- Typical water heater: Gas, Electric, other?

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2

Home Inspections – The task

- Your task is special and difficult.
- Your experience base can grow on nearly every case, if you are aware and mindful.
- Home inspection is pattern recognition.
- Does this installation fit the typical pattern?
- Confidence needed. – What is normal?
- Humility needed. Accept the challenge.
- Embrace the unfamiliar. Search further.
- Be curious. Do NOT guess. Ask for help.

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3

Why Plumbing? Why basics?

- What functions does the house perform?
- Why is plumbing important? Can you drink the water?
- Modern plumbing = Developed world
- Understand theory to understand application
- Fluid dynamics – Hydraulics – part of Building Science. Research at Univ. of Iowa
- Go beyond supply, drainage, and lack of leaks.

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4

23 Plumbing principles

- | | |
|------------------------|-------------------------------|
| • Potable water supply | • Drainage cleanouts |
| • Safe food storage | • Prevent backflow |
| • Required fixtures | • Vent terminals |
| • Connection to sewer | • Exclude damaging substances |
| • Air flow in pipes | • System durability |
| • Proper flow velocity | |

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5

23 Plumbing principles

- | | |
|--------------------------|--------------------------------------|
| • Tests & Inspections | • Accessible fixtures |
| • System Maintenance | • Water seal trap |
| • Building undamaged | • Light & ventilation |
| • No fouling surfaces | • On-site treatment |
| • Pressure and flow | • Avoid explosion & overheated water |
| • No excessive water use | • No untreated sewage discharge |
| • Supply hot water | |

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Class Demographics Basic Plumbing Principles

Chao Zhang



Class Demographics Basic Plumbing Principles:

Class Demographics Basic Plumbing Principles Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Class Demographics Basic Plumbing Principles**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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