



## *Basic Plumbing Principles*

### **Inspection Theory & Practice**

Great Lakes Chapter of ASHI - Oct. 2011

presented by

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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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### **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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### **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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### **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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### **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

**Ian Pickup**



**Class Demographics Basic Plumbing Principles:**

## Unveiling the Magic of Words: A Review of "**Class Demographics Basic Plumbing Principles**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Class Demographics Basic Plumbing Principles**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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