



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

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

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Class Demographics Basic Plumbing Principles

**New Zealand. Parliament. House of
Representatives**



Class Demographics Basic Plumbing Principles:

Unveiling the Magic of Words: A Report on "**Class Demographics Basic Plumbing Principles**"

In a world 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 truly awe-inspiring. Enter the realm of "**Class Demographics Basic Plumbing Principles**," a mesmerizing literary masterpiece penned with 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 to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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