

# Plumbing III

## Plumbing Math 2083

**1 Use formulas** 2083.1

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## General Plumbing Practices 2083

**2 Demonstrate Blueprint Reading** 2083.2

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**3 Interpret isometric view of drain, waste, vent (DWV) system** 2083.3

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**4 Identify plumbing materials and fittings** 2083.4

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**5 Identify plumbing pipe protection methods (i.e., fire caulk, nail plates)** 2083.5

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**6 Interpret and comply with general plumbing practices** 2083.6

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**7 Interpret manufacturer's specifications** 2083.7

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**8 Testing of plumbing systems** 2083.8

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## Vent Installation 2083

**9 Install a vent system for soil or waste drainage** 2083.9

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**10 Differentiate between types of vents and venting systems** 2083.10

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## Water Supply and Distribution 2083

**11 Lay out/rough-in water service and distribution lines** 2083.11

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**12 Install water lines, including water hammer arrestors and/or air chambers** 2083.12

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**13 Identify various valve types and required locations** 2083.13

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**14 Identify cross-connection and back-flow devices and functions** 2083.14

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## History of Apprenticeship 2083

**15 Apprenticeships Used for Exploitation** 2083.15

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**16 Examples of early Apprenticeships** 2083.16

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**17 Apprenticeship Expansion in the Industrial Revolution** 2083.17

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## Apprenticeship Programs Today 2083

**18 Modern Apprenticeship programs** 2083.18

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**19 Support of Apprenticeship Programs today** 2083.19

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