

Plumbers



DOES THIS DESCRIBE YOU?

Work Interests involve descriptive categories (compatible with Holland's Model) attributed to success in this career:

- **Realistic**—Involves work activities that include practical, hands-on problems and solutions; often dealing with plants, animals, and real-world materials like wood, tools, and machinery.
- **Conventional**—Enjoy following set procedures and routines developed through higher authority; includes working with data and details more than with ideas.
- **Investigative**—Involves working with ideas requiring an extensive amount of research, fact finding, problem solving, and thought analysis.

Work Styles depict worker characteristics conducive for this career:

- **Dependability**
- **Attention to Detail**
- **Integrity**
- **Cooperation**
- **Initiative**

Work Values are associated with aspects of work that provide satisfaction in this career:

- **Independence**—Autonomy; working on your own.
- **Relationships**—Provide service to others in noncompetitive environment.
- **Working Conditions**—Job security; good working conditions.

Aptitudes reflect an ability to acquire skills and knowledge for success in this career:

- **Problem Sensitivity**
- **Near Vision**
- **Deductive Reasoning**
- **Extent Flexibility**
- **Finger Dexterity**

OVERVIEW

Assemble, install, or repair pipes, fittings, or fixtures of heating, water, or drainage systems, according to specifications or plumbing codes. Belongs to the Architecture and Construction cluster and Construction pathway.

SKILLS & KNOWLEDGE NEEDED

Basic Skills:

- Judgment and Decision Making
- Active Listening
- Complex Problem Solving
- Operation Monitoring
- Critical Thinking

Technology Skills:

- Accounting Software
- Analytical or Scientific Software
- Computer Aided Design Software
- Data Base User Interface and Query Software
- Word Processing Software

Knowledge:

- Mechanical
- Building and Construction
- Design
- Customer and Personal Service
- Mathematics

ESTIMATED & PROJECTED EMPLOYMENT

| Occupational Title | 2014 Estimated Employment | 2024 Projected Employment | 2014-24 Employment Change | Annual Growth Rate (%) | Total Annual Openings |
|---------------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------|-----------------------------|
| Total, All Occupations | 1,795,100 | 1,949,240 | 154,140 | 0.9 | 58,145 |
| Construction & Extraction Occupations | 80,275 | 91,315 | 11,040 | 1.4 | 2,335 |
| Plumbers, Pipefitters, & Steamfitters | 6,500 | 7,375 | 875 | 1.3 | 175 |

Source: <https://www.iowaworkforcedevelopment.gov/occupational-projections>

2017 WAGE & SALARY (\$)

| Occupational Title | Mean Wage | Mean Salary | Entry Wage | Entry Salary | Exp Wage | Exp Salary |
|---------------------------------------|--------------|----------------|---------------|-----------------|-------------|---------------|
| Total All Occupations | 20.93 | 43,539 | 10.09 | 20,991 | 26.35 | 54,813 |
| Construction & Extraction Occupations | 21.27 | 44,237 | 13.89 | 28,882 | 24.96 | 51,914 |
| Plumbers, Pipefitters, & Steamfitters | 23.39 | 48,659 | 14.97 | 31,139 | 27.61 | 57,420 |

Source: <https://www.iowaworkforcedevelopment.gov/occupational-employment-and-wages>

EDUCATION & TRAINING

| Education | Work Experience | Job Training |
|---------------------|-----------------|----------------|
| High School Diploma | None | Apprenticeship |

A diploma is required for most plumber positions with training received from vocational schools, industry-based programs, and/or apprenticeships. Sources: <https://www.iowaworkforcedevelopment.gov/occupational-projections>, https://www.bls.gov/emp/ep_education_training_system.htm, and <https://www.dol.gov/apprenticeship/>

NATIONAL CAREER READINESS CERTIFICATE (NCRC)

| Skill | Median Skill Level | Minimum Skill Level | Maximum Skill Level |
|-----------------------------|--------------------|---------------------|---------------------|
| Applied Mathematics | 4 | 3 | 6 |
| Locating Information | 4 | 3 | 5 |
| Reading for Information | 4 | 3 | 5 |
| Applied Technology | 3 | 3 | 5 |
| Business Writing | 2 | 2 | 2 |
| Workplace Observation | 2 | 2 | 5 |
| Listening for Understanding | 2 | 1 | 3 |

An ACT assessment-based credential issued in determining essential work skills needed for employment success across industries and occupations. The greater the score, the greater the skill level (Bronze = 3, Silver = 4, Gold = 5, Platinum = 6 & higher). Source: <http://www.act.org/content/act/en/products-and-services/workkeys-for-employers/assessments.html>

ADDITIONAL SOURCES:

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PRIMARY INDUSTRY SECTORS

(Where are Plumbers Employed?)

Specialty Trade Contractors
Self Employed
Agriculture
Construction
Machinery Mfg

Source: <https://www.iowaworkforcedevelopment.gov/occupational-projections>