

Occupational Profile



Sheet Metal Workers

OVERVIEW

Fabricate, assemble, install and repair sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings. Work may involve any of the following: setting up and operating fabricating machines to cut, bend, and straighten sheet metal; shaping metal over anvils, blocks or forms using hammer; operating soldering and welding equipment to join sheet metal parts; inspecting, assembling, and smoothing seams and joints of burred surfaces. Belongs to the Architecture and Construction career cluster and Construction career pathway.

SKILLS & KNOWLEDGE NEEDED

Basic Skills:

- Coordination
- Judgment and Decision Making
- Mathematics
- Critical Thinking
- Monitoring

Technology Skills:

- Computer Aided Design Software
- Computer Aided Manufacturing Software
- Office Suite Software
- Operating System Software
- Spreadsheet Software

Knowledge:

- Mechanical
- Mathematics
- Building and Construction
- Administration and Management
- English Language

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.

Work Styles depict worker characteristics conducive for this career:

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

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.
- **Support**—Management backing.

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

- **Near Vision**
- **Multilimb Coordination**
- **Visualization**
- **Information Ordering**
- **Arm-Hand Steadiness**

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
Sheet Metal Wkrs	1,970	2,195	225	1.1	65

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
Sheet Metal Workers	22.47	46,731	14.63	30,440	26.38	54,877

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 sheet metal worker 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	4	3	4
Business Writing	n.a.	n.a.	n.a.
Workplace Observation	3	2	4
Listening for Understanding	2	2	2

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 Sheet Metal Workers Employed?)

Specialty Trade Contractors
Self Employed
Fabricated Metal Product Mfg
Machinery Mfg

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