



Apprenticeship

Apprenticeship: (as defined in the Webster's Dictionary)

- a) one bound by indenture to serve another for a period with a view to learning an art or trade
- b) one who is learning by practical experience under skilled workers a trade, art, or calling

Find information on the Web at: www.ua400.org or contact:

Scott Wenger
Local 400 Training Coordinator
PO Box 533
Kaukauna, WI 54130
920-462-0407
scott@ua400.org

Steamfitter

Today's Steamfitter deals with many challenging and complex piping systems. From powerhouse piping, paper mills, factories, office building and medical facilities all have high pressure and low pressure piping systems that Steamfitters install and maintain. Heating, Air Conditioning, Refrigeration, Steam, and Process piping are all systems a Journeyman Steamfitter will be able to install and maintain when they successfully complete a Steamfitter Apprenticeship. Some of the fields a Steamfitter will work in are:

- Commercial/Industrial Piping Systems
- Ammonia Piping
- Gas/Water/Air Piping
- Hydronic Heating
- Hydraulic Piping
- Medical Gas Piping
- Power Piping
- Steam Piping
- X-ray Welding
- Instrumentation/Tubing

Upon completion of the Steamfitter Apprenticeship you will earn 32 college credits towards an Associate Degree in Construction Supervision. Continuing Education and many Certification classes are offered for Journey persons to upgrade their skills.

Plumber

Today's Plumber needs to be versatile in many aspects of the plumbing industry. A plumber must be able to work on systems from residential homes to large industrial factories and large municipal wastewater treatment plants. Plumbers of today must be trained in blueprint reading, problem solving, installation and repair, leadership and communications. All of these skills are learned thru an apprenticeship program that allows you to learn while you earn, meaning your apprenticeship schooling is paid for and you earn money while working and learning. Some of the fields you will be trained in are:

- Residential and Commercial Installation
- Industrial Installation
- Plumbing Service
- Potable Water Supply
- Understanding Plumbing Code
- Underground Utilities
- Waste Water Treatment
- Gas/Water/Air Piping
- Backflow Prevention
- Auto Cad

Upon completion of the Plumbing Apprenticeship you will earn 32 college credits towards an Associate Degree in Construction Supervision. Continuing Education and many Certification classes are offered for Journey persons to upgrade their skills.

HVACR TECHNICIAN

Heating, Air Conditioning, and Refrigeration (HVACR) Technicians install, maintain, and repair systems in all types of commercial and industrial buildings where we work, live and play.

HVAC Technicians must have an electrical, mechanical and diagnostic background in order to effectively and efficiently work on the variety of systems they come across in their daily job duties. Peak heating and cooling times of the year are always busy for HVACR Technicians with large demands on equipment there are bound to be many service calls. Being able to diagnose and repair this equipment is a must for a HVACR Technician. Some of the training involved for the HVACR Technician is:

- Residential/Commercial/Industrial
- Instrumentation
- Maintenance
- Tubing
- Service
- Heating/Ventilation/Air Conditioning & Refrigeration
- DDC Systems – Direct Digital Controls
- Computer Training

Upon completion of the HVACR Apprenticeship you will earn 32 college credits towards an Associate Degree in Construction Supervision. Continuing Education and many Certification classes are offered for Journey persons to upgrade their skills.

Fabricator

Fabricator Journeymen and Apprentices must have a great desire to work in the welding field. In the Fabricator Program the Apprentice will be trained and certified in ten different welding processes plus the various aspects of pipefitting. The fabrication shop is the environment that most of the work will be preformed. Some of the welding procedures the Fabricator will learn are:

- G.T.A.W Stainless Steel
- G.M.A.W. Carbon Steel
- G.T.A.W. First Two Passes / S.M.A.W. the Remainder
- G.T.A.W. Fusion Weld (food grade)
- G.M.A.W / F.C.A.W. Carbon / Stainless Steel
- S.M.A.W. Carbon Steel
- G.T.A.W. / G.M.A.W.
- Soldering and Brazing

All welding processes are done on pipe in various welding positions and a variety of wall thickness. Upon completion of the apprenticeship a Journeyman Fabricator can continue their education and test to attain a Pipe Fitter Journeyman's Card.

**Completion of apprenticeship can lead to other
careers in the piping industry:**

**Project Manager
Estimator
Welding Inspector
Construction Engineer
Union Official
Superintendent
Business Owner
Teacher
Municipal Inspectors**

As you can see by this list there are many opportunities to further advance a career in the piping industry. Training thru an Apprenticeship can go a long way towards making a good living.

Wage Comparisons

(data from Wisconsin's WORKnet - 01/19/2007)

Occupation

Annual Wage

Average Skills

Experienced

Healthcare Support Occupations	\$23,624	\$25,692
Data Entry	\$24,778	\$27,632
New Accounts Clerk	\$27,107	\$28,726
Social/Human Service Assistants	\$28,828	\$33,017
Psychiatric Technicians	\$30,242	\$33,805
Fire Fighter	\$30,551	\$37,998
<i>Roofer</i>	\$34,180	\$39,402
Rehabilitation Counselors	\$34,926	\$40,784
<i>Painter</i>	\$34,948	\$41,584
<i>Teamster</i>	\$36,797	\$42,095
Computer Support Specialist	\$38,897	\$44,377
<i>Glazier</i>	\$41,463	\$48,550
<i>Ironworker</i>	\$42,998	\$51,310
<i>Operating Engineer</i>	\$43,669	\$49,514
<i>Sheetmetal Worker</i>	\$44,323	\$52,394
Police Officer	\$44,433	\$49,920
Sound Engineering Technician	\$44,842	\$58,062
Teacher	\$45,031	\$52,000
<i>Tile & Marble Setters</i>	\$45,104	\$52,033
Training & Development Specialist	\$46,092	\$54,099
Employment, Recruitment & Placement Specialist	\$46,133	\$54,662
Architect	\$41,017	\$46,788
Public Relations Specialist	\$47,061	\$55,775
<i>Electrician</i>	\$47,298	\$54,022
<i>Boilermaker</i>	\$47,732	\$54,992
<i>Bricklayer</i>	\$48,083	\$54,912
<i>Plumber/Steamfitter</i>	\$52,075	\$59,925
Registered Nurse	\$55,060	\$60,198
Loan Officer	\$55,662	\$67,962
<i>Mechanical Insulation Worker</i>	\$55,843	\$67,943
Accountant	\$57,547	\$66,791
Sales Representative	\$57,978	\$71,160
Civil Engineer	\$61,560	\$68,840
Industrial Engineer	\$61,978	\$69,836
Sales Engineer	\$71,493	\$83,088
<i>Elevator Installer & Mechanic</i>	\$72,807	\$81,615
Financial Advisor	\$77,792	\$97,589
Lawyer	\$96,042	\$117,399
Financial Manager	\$99,884	\$119,968
Doctor	\$160,249	\$188,911