CONCENTRATED PLUMBING APPRENTICESHIP YEAR ONE

Location: Buchtel High School
1040 Copley Road
Akron, OH 44320

Dates: February 13-17 May 15-19
September 11-15 December 11-15

Hours: 8:00 a.m.—4:30 p.m.
WHAT IS CONCENTRATED TRAINING

Concentrated training is the new trend in apprenticeship, supported and encouraged by the Ohio PHCC and many other state and local programs. These programs have found that, though faced with initial apprehension from some participants, students and employers are getting more benefit from concentrated training, their programs have been improved greatly, and participants are appreciative of the change. Concentrated Training is proven to work and result in highly trained graduates!

Ohio PHCC concentrated apprentice program consists of 4 separate one-week condensed training sessions where classes are held Monday through Friday, 8:00 a.m. - 4:30 p.m. Students will receive 160 hours of classroom instruction as opposed to 144 received in the standard evening programs. Classes are taught by contractors, industry personnel and qualified teachers according to the class topics covered. The Plumbing-Heating-Cooling Contractors National Association Apprentice Manual will be used as the curriculum guide. Students will experience half of the daily training in bookwork and half in interactive hands-on learning.

ADVANTAGES OF CONCENTRATED TRAINING

Our program is designed to utilize the best teaching and learning techniques to the extent they may be the benchmark for the plumbing-heating-cooling industry.

Examples of how concentrated training and learning will allow Ohio PHCC to reach this goal are:

- PHCC will have better control over its product - the instruction given daily to students will be supervised and we will be assured that it meets the committee’s expectations of a high quality program;
- Better retention of material through the ability to cater to individual learning styles and continuous accountability on a day-to-day basis;
- Safety issues – Fresh thinking can be directed to learning by students who focus on the training during the day instead of after a full day of work, and they will also be able to enjoy quality family time in the evenings;
- A combination of classroom and hands-on instruction is guaranteed. Students will see the connection to the real world, increase their knowledge and receive the hands-on training they need;
- Students can apply what is learned immediately to the job and become a more valuable employee in far less time;
- Vendors will be scheduled and all students will have the opportunity to learn about new products;
- Attendance issues will be decreased - or eliminated all together (unless an emergency or illness happens suddenly, students will be in class for each hour of instruction).

HANDS ON TRAINING

- Experience will be provided in a hands-on lab for all plumbing applications: residential, commercial, and service and repair

Work simulated “stations” will enable students to learn plumbing from the ground up.

“A combination of classroom and hands-on instruction is guaranteed.”

Striving to be the benchmark of the plumbing industry
The PHCC National Association Apprentice Training Manual, Year 1, will be used in 2006. The curriculum includes the following:

- **Plumbing background** - Introduction to the plumbing profession; plumbing laws, tools and safety, hand tools used in plumbing work, rough-in tools - copper, plastic, soil pipe and steel pipe, finish and repair tools, welding and power tools, air and hydraulic tools

- **Plumbing mathematics** - Review of numbers, fractions, and decimals; Mathematical operations decimals to fractions, fractions to decimals; measuring tapes, folding rules, scale rulers and gauges

- **Related science** - goals of plumbing, water sources, waste disposal, sewage disposal, introduction to gases, mechanical properties of materials and structures, dangers of waste products and gases

- **Installation practices** - cutting, drilling and nail protection for building structural elements, piping materials used in plumbing work - cast iron soil pipe, cast iron threaded fittings, glass pipe and fittings, copper tubing and fittings, plastic pipe and fittings - piping used in plumbing work with pressure, piping materials used in plumbing work DWV; joining methods and materials for DWV piping, pressure pipe and fittings

- **Mathematics applications** - using percents and decimals; squares, square roots and circles, angles, ratios and triangles;

- **First aid education** taught by the American Red Cross

- **Safe work practices** - Safety on the job using OSHA and PHCC Safety Manual including safe practices with scaffolding, tagout/lockout procedures, excavations and trenches, personal protective equipment, cranes, motor vehicles and heavy equipment, electrical safety, rigging, welding and burning operations, ladder safety, hand and power tools, machine shop safety, fire prevention, housekeeping

- **Installation practices** - typical plumbing fixtures, fixture fittings (faucets) and valves

- **Blue print reading and sketching** - building plans and drawings, using scale rulers, sketching - freehand and with drafting tools, symbols and detail sketching, projections used for drawings (advantages and disadvantages).

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**Employer Requirements and Costs**

Participation in the PHCC Ohio Apprenticeship program requires the following:

- **Membership in the Plumbing-Heating Cooling Contractors Association at the Local, State and National levels**

- **Agreement to supplement training in-house according to guidelines provided by PHCC Concentrated Apprentice Committee**

- **Agreement to pay, or insure payment, of $750.00 for Year 1 tuition plus $145.00 for Apprentice Manual and ICC Plumbing Code Commentary**

Agree to pay the apprentice no less than minimum wage established by the PHCC Ohio Concentrated Apprentice Training Committee subject to evaluation of satisfactory progress on the job and in related class work of the apprentice:

- **1st 6 months** = $8.00 per hour
- **2nd 6 months** = $8.50 per hour
- **3rd 6 months** = $9.00 per hour
- **4th 6 months** = $9.75 per hour
- **5th 6 months** = $10.50 per hour
- **6th 6 months** = $11.25 per hour
- **7th 6 months** = $12.00 per hour
- **8th 6 months** = $12.75 per hour

Conform to the following standards identified by the Ohio PHCC Apprentice Standards:

- **Provide proper supervision, training, safety and continuous employment, insofar as possible**;

- **Maintain 1 apprentice to 1 journey person for the first apprentice, and 1 apprentice to 3 journey persons for each additional apprentice**;

- Exercise reasonable precaution for the health and safety of the apprentices

- Apprentices shall be under the general direction of the employer and immediate supervision of the foreman to whom they are assigned for training.

- The employer shall not schedule any work for the Apprentice which would prohibit the Apprentice from attending related instruction classes.
Frequently Asked Questions

What is Apprenticeship?

Apprenticeship is a systemized manner of training, encompassing both on-the-job training and classroom instruction. The apprentice/trainee will work a minimum of 8,000 on-the-job hours and must attend class for a minimum of 576 hours during their apprenticeship/training.

How long is the Apprenticeship program?

The Ohio PHCC Concentrated Apprenticeship Program is a four-year (to be) state approved apprenticeship program.

Does the Apprentice get paid during his/her apprenticeship?

That is between the employer and employee. Apprentices are paid according to the individual employer’s guidelines using the minimum scale set in the Standards adopted by the Concentrated Apprenticeship Training Committee. The apprentice/trainee must be willing to work for a participating contractor in the program.

Can the Apprentice/Trainee switch jobs during his/her training?

The apprentice/trainee will receive periodic increases in pay, typically every 6 months during the term of their training. Determination of wages during the concentrated classroom instruction will be made by the employer.

Must the apprentice/trainee attend classes?

Yes, the apprentice/trainee must attend all classes scheduled during the four-year program. Unexcused absences will result in the apprentice being scheduled for a disciplinary hearing and possible expulsion from the program. Classroom instruction is a vital part of the training process and as such, the apprentice/trainee must attend that instruction.