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ABSTRACT

The history and development of concepts and practices in apprenticeship are discussed in this booklet, which is divided into five sections. Section 1 covers information from indentures imported from Europe, and early labor conditions through skill in apprenticeable trades and apprentice masterpieces. Section 2, Apprenticeship Undergoes Change, covers graduated wages for apprentices, wage rates lag, careers with apprenticeships, and apprenticeship legislation. Modern apprenticeship programs are described in the third section, including certificates of completion, joint apprenticeship committees, basic standards for apprenticeship, and apprenticeship values for youth and industry. Section 4, New Directions in Apprenticeship, includes information on women and veterans in apprenticeship, apprenticeships for the disadvantaged, apprenticeship information centers, preparatory courses, and prejob programs. The final section concludes that projection for employment opportunities shows a need for skilled workers, noting that apprenticeship is one of the best ways of training skilled craft workers. State and territorial apprenticeship agencies and regional offices of the Bureau of Apprenticeship and Training are listed.

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# Apprenticeship: Past and Present

U.S. Department of Labor  
Employment and Training  
Administration.

Bureau of Apprenticeship  
and Training  
Revised 1977



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EDUCATION & WELFARE  
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# Apprenticeship—Past and Present

*Know all men that I, Thomas Millard, with the Consent of Henry Wolcott of Windsor unto whose custody and care at whose charge I was brought over out of England into New England, doe bynd myself as an apprentice for eight yeeres to serve William Pynchon of Springfield, his heirs and assigns in all manner of lawful employnt unto the full ext of eight yeeres beginninge the 29 day of Sept 1640. And the said William doth condition to find the said Thomas meat drinke & clothing fitting such an apprentice & at the end of this tyme one new sute of apparell and forty shillings in mony: subscribed this 28 October 1640.*

What it was like to be an apprentice in early New England is indicated by these words from a 1640 indenture. As it turned out, apprentice Millard lost out on the cash mentioned. The following statement is made at the foot of the indenture:

*Tho Millard by his owne consent is released & discharged of Mr. Pynchons service this 22. of May 1648 being 4 months before his tyme comes out, in Consideration whereoff he looses the 40s in mony wch should have bin. pd him, but Mr. Pynchon givith him one New sute of Aparell he hath at present.*

Indentures were forerunners of our modern apprenticeship agreements. Today the apprentice's situation is far different from Thomas Millard's. Apprentices are no longer bound body and soul to their masters. They no longer live in a master's house nor are dependent upon a master for handouts of food, a little clothing, or a few uncertain shillings.

Nowadays, apprentices are members of a production force as they train on the job and in the classroom. They are paid wages, work a regular workweek, and live in their own home rather than that of a master. Their apprenticeship agreements set out the work processes in which they are to be trained and the hours and wages for each training period. At the end of their apprenticeship, they receive certificates that are similar to the diplomas awarded the engineering graduates of universities.

There are now more than a quarter of a million registered apprentices in American industry. They are learning, under the guidance of experienced craft workers, such skilled occupations as aircraft fabricator, automotive body repairer, bricklayer, carpenter, chemical process operator, dental laboratory technician, drafter, designer, lithographer, machinist, operating engineer, optical technician, painter-decorator, photographer, printer, tool and die maker, and many more.

Management, labor, and government work together to promote apprenticeship and to develop sound standards for its practice. In many communities, joint management-labor apprenticeship committees conduct and supervise the local programs.

## Looking Backward

Since time immemorial, people have been transferring skills from one generation to another in some form of apprenticeship. Four thousand years ago, the Babylonian Code of Hammurabi provided that artisans teach their crafts to youth. The records of Egypt, Greece, and Rome from earliest times reveal that skills were still being passed on in this fashion.

When youth in olden days achieved the status of craft workers, they became important members of society. Their prestige in England centuries ago is reflected in a dialog from the *Red Book of Hergest*, a 14th-century Welsh Bardic manuscript:

"Open the door!

"I will not open it."

"Wherefore not?"

"The knife is in the meat, and the drink is in the horn, and there is revelry in Arthur's Hall; and none may enter therein but the son of a King of a privileged country, or a craftsman bringing his craft."

The status given the craft worker was well placed. As we all know, many countries no longer have kings but still have craft workers.

## Indenture Imported From Europe

When America was settled, craft workers coming to the New World from England and other European countries brought with them the practice of indenture and the system of master-apprentice relationships. Indenture derived its name from the English practice of tearing indentations or notches in duplicate copies of apprenticeship forms. This uneven edge identified the copy retained by the apprentice as a valid copy of the form retained by the master.

In those days, both the original and the copy of the indenture were signed by the master and the parent or guardian of the apprentice. Most of the apprentices were 14 years of age or younger. By comparison, today most apprentices begin training between the ages of 18 and 24. The modern apprenticeship agreement is signed by the employer; by a representative of a joint management-labor apprenticeship committee, or both; and by the apprentice. If the apprentice is a minor, the parent or guardian

also signs.

**7 WORK SCHEDULE**

The employer agrees to provide the apprentice with a schedule of work which is in accordance with the applicable laws and regulations and which will be approved by the appropriate authority.

NAME OF TABLE

WORK SCHEDULE

APPLY TIME

**U.S. DEPARTMENT OF LABOR - Employment and Training Administration  
Bureau of Apprenticeship and Training  
APPRENTICESHIP AGREEMENT  
BETWEEN  
APPRENTICE AND EMPLOYER**

CHECK APPROPRIATE BOX  
 Veteran of Vietnam  Non-Veteran

**PRIVACY ACT STATEMENT**

This document is a form used in the apprenticeship program...  
Public Act of 1976, P.L. 94-578

The employer and apprentice who signatures agree to the following terms of apprenticeship

The employer agrees to be bound by the terms and conditions of the apprenticeship in accordance with the Federal Register...  
Name of Apprentice Signature

The apprentice agrees to be bound by the terms and conditions of the apprenticeship in accordance with the Federal Register...  
Name of Apprentice Signature

|  |   |
|--|---|
| <p>NAME OF APPRENTICE</p> <p>SIGNATURE - EMPLOYER</p> <p>ADDRESS - EMPLOYER</p> <p>SIGNATURE - APPRENTICE</p> <p>NAME - APPRENTICE</p> <p>SIGNATURE - APPRENTICE</p> <p>ADDRESS - APPRENTICE</p> <p>SIGNATURE - APPRENTICE</p> <p>ADDRESS - APPRENTICE</p> <p>REGISTER BY NAME</p> | <p>TO BE FILLED BY THE APPRENTICE</p> <p>NAME</p> <p>ADDRESS</p> <p>PHONE</p> <p>DATE</p> |
|--|---|

3

**Modern Machinist Apprenticeship Agreement**

Itemized in this modern apprenticeship agreement are the apprentice percentage wage schedule, work process in which the apprentice is trained and the number of hours allocated to each phase of training

## Crafts in Family Tradition

Today's apprenticeships are keeping alive a knowledge of many crafts and skills that in other times were passed on largely by family tradition. Fathers taught their sons the crafts in generation after generation. This tradition is exemplified still in stonecutting, one of the most ancient of crafts.

American patriot Paul Revere was a member of a famous family of silversmiths. Paul and his younger brother, Thomas, learned their craft from their father. In turn, two of Paul's sons served apprenticeships in the family's Boston shop.

Paul Revere's skill in crafting silver can still be appreciated today. As many as 500 of his pieces are known to exist. During his lifetime, he produced a great quantity of church silver, flagons, christening bowls, tankards, cups, spoons, tea sets, and trays.

He also became a coppersmith and cast church bells that may still be heard in New England cities. He founded the American copper and brass industry when, in 1802 at the age of 67, he set up in Canton, Mass., the first copper rolling mill. This mill remained in operation under its original name for 100 years. Later the business became part of the present-day Revere Copper and Brass Co. In many of the plants of this company, apprenticeship programs in the metalworking trades are conducted today.

A famous contemporary of Paul Revere's, Benjamin Franklin, was indentured in 1718 at the age of 12 to his elder brother, James. Their father paid James 10 pounds to teach the printing art to Benjamin and to pay for Benjamin's food, lodging, and other "necessaries."

The indenture provisions were especially generous for those days. They specified that Benjamin was to receive a journeyman's wage in the last year of his apprenticeship just before he became 21 years old—if he remained on the job that long. Moreover, when the precocious Benjamin was 15 years old, he arranged for a cash payment for his food. This was a big financial advantage to him because he had become a vegetarian and found vegetables and fruit cheaper than meat. Out of his savings he was able to buy books. He says in his autobiography that he was frequently able to subsist with only a "bisket and a stick of bread, a handful of raisins, a tart from the pastry cook's, and a glass of water."

Benjamin quit, however, before he completed the 9 years of apprenticeship specified in the indenture because of quarrels with James who, he says, sometimes beat him. He adds, "Thinking my apprenticeship very tedious, I was continuously wishing for some opportunity of shortening it."

Printing was also the trade of Daniel S. Glackens, who became father-in-law to noted craft workers. Glackens published the news-



paper, *The Lafayette*, in the 1820's in Pottstown, Pa. One of his sons, Henry O. Glackens, became a craft worker in the shops of the Pennsylvania Railroad after serving an apprenticeship and later was a manufacturer and business executive. Another son, William J., was engaged in art plastering and worked on the Capitol Building in Washington, D.C. Among the early printer's grandchildren were William J. Glackens, a celebrated artist, and Louis Glackens, cartoonist and illustrator for the magazine, *Puck*.

The bricklaying trade has been well represented in the McGlade family of Waterloo, Iowa. Eight bricklayers had appeared on the family tree by the middle of this century, descended from an Irish stonemason who settled in Cedar Falls, Iowa, during the last part of the 1800's. Bricklaying has also been carried forward by the McKenna family of Philadelphia. There have been six bricklayers in that family, one of them for many years a member of the Bureau of Apprenticeship and Training's field staff.

### Poor Children Indentured

In colonial New England, many youngsters less than 10 years old whose parents could not support them were indentured to masters who agreed to teach them a trade. This practice was legalized by the poor laws. The indenture quoted below, for example, required a youthful apprentice in 1676 to serve more than 12 years to learn masonry. As apprentices then were usually bound to masters until they were 21 years old, apprentice Nathan Knight apparently began his service when he was about 8½ years. These were the conditions of his servitude:

*This Indenture witnesseth that I, Nathan Knight . . . have put myself apprentice to Samuel Whidden, of Portsmouth, in the county of Portsmouth, mason, and bound after the manner of an apprentice with him, to serve and abide the full space and term of twelve years and five months . . . during which time the said apprentice his said master faithfully shall serve. . . . He shall not . . . contract matrimony within the said time. The goods of his said master, he shall not spend or lend. He shall not play cards, or dice, or any other unlawful game, whereby his said master may have damage in his own goods, or others, taverns, he shall not haunt, nor from his master's business absent himself by day or by night, but in all things shall behave himself as a faithful apprentice ought to do. And the said master his said apprentice shall teach and instruct, or cause to be taught and instructed in the art and mystery as mason; finding unto his said apprentice during the said time meat, drink, washing, lodging,*

and apparel, fitting an apprentice, teaching him to read, and allowing him three months towards the latter end of his time to go to school to write, and also double apparel at end of said time. . .

Even though this apprentice probably did not get a chance to go to school until he was about 20 years old, his master showed a sense of community and civic responsibility, for schooling of some sort—even though limited to reading and writing—was desperately needed in the Colonies. Although the school instruction for an apprentice at that time was inadequate, it may be considered another link with present-day apprenticeship, which provides technical classroom instruction to supplement on-the-job training.

### **Exploitation of Poverty-Stricken**

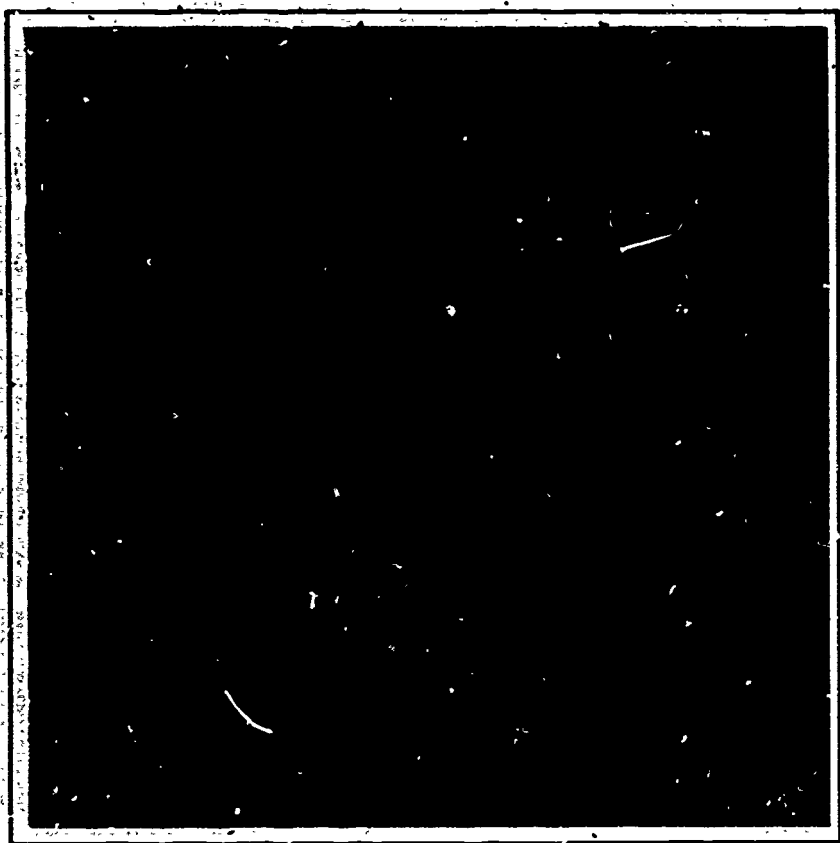
One chapter in the history of apprenticeship caused a stigma difficult to outlive—the exploitation of poor men, women, and children as indentured servants who were given little or no opportunity to learn a trade. It was a system that can hardly be classified as apprenticeship.

The practice of indenturing servants, some of them former prisoners imported from abroad, took place largely in the Southern States, where labor was needed on the plantations. Workers paid off the cost of their transportation by serving as so-called apprentices. Tempted into the traffic in these workers were the ships' captains and bartering agents who profited by it. This exploitation of unfortunates was finally erased after public sentiment brought about regulative acts.

### **Leatherwork—An Early Craft**

The development of craft workers in the early leather industry is reflected in the indenture of Gould Brown:

*North Kingston, April the 7th 1792. We the subscribers this day have mutually agreed that I Gould Brown, am to work with Mr. Benjamin Greene the term of twenty four months, for the sum of three pounds lawful silver money to me in hand paid at the expiration of said time; and the said Benjamin is to allow the said Gould Brown the Privilege of Tanning and Currying Six Calves Skins and two large sizes only tan'd; and is to find him two pair of thick Double Sould shoes, and as many frocks and trousers to ware as he needs in the tan-yard to work, and to Board him the said Gould Brown and Wash his Clothes the said time. Further, I the said Gould Brown, Do agree to Bring with me One Sett of Shoemakers tools for to work with, and Mr. Benjamin Greene agrees to let him have another Sett to Bring away with him When his time is Expired*



Apparently, the apprentice named in this indenture had to make shoes during his spare time as he agreed to bring with him a set of shoemaker's tools to work with.

It was a great deal to expect of a young apprentice, for "tanning and curring" were tiring tasks. Usually both the tanning vat and the tanning mixture had to be made. The vat was made by sinking boxes of planks into the ground. The tanning mixture was made by using large boulders to crush bark, twigs, and leaves. Skins were salted down and dried, then thoroughly garnished with this mixture and piled on top of one another over the vat. The whole glorious mess was then swamped with quantities of water and left in the enclosure to soak and smoke for half a year.

Gould Brown may have known how to make shoes, for the indenture does not say that he was to be shown how. He may have been a journeyman craft worker in the shoemaking trade who wanted a chance to learn to make leather.

That the construction industry, which has led apprenticeship activities in this country in recent years, used the formalized indenture more than a century ago is shown by the indenture of a "house carpenter" in 1832. This indenture bound a 16-year-old apprentice in New Bedford, Mass., to his master until 1837—exactly 100 years before the enactment of the National Apprenticeship Law (Public Law 308, 75th Congress). The indenture states that John Slocum "doth by these Presents bind Lyman Slocum, his son, a minor . . . to Thomas Remington . . . to learn the art, trade, or mystery of a House-Carpenter." The master promised "to teach and instruct, or cause the said Apprentice to be instructed, in the art, trade or calling of a House Carpenter . . . (if said Apprentice be capable to learn)."

### Skill in Apprenticeable Trades

Very little is recorded on exactly how apprentices were trained in the early days. But whether or not craft workers acquired their skills in training here or abroad or through their own devices, they apparently deserved the title. They were amazingly skillful, judging for example by the excellent condition of many of the buildings erected in this country more than 150 years ago.

These traditions are still carried on. A contemporary columnist, Rudolph Elie of the *Boston Herald*, vividly set forth his observations of the craft worker's skill in an article written in 1954.

He described it as follows:

*For the last half hour, I have been standing, mouth ajar, down on Arch Street watching them lay bricks in the St. Anthony Shrine now 'abuilding,' and I have come to the conclusion that laying bricks is a fine and noble and fascinating art. It must be a very ancient art . . . and those fellows down on Arch Street are the inheritors of an old tradition. And, curiously enough, to watch them work you get the notion that they are somehow aware of it. . . .*

*The bricklayer has a sort of rhythm and grace and fluency in his work. . . . Apparently they can execute the most intricate designs in brick, though there certainly seemed to be no blueprints in evidence.*

### Apprentice Masterpieces

In England, early apprentices were required to make a masterpiece or test piece after completing their apprenticeships. This sample of work is submitted for inspection by a group of masters to gain guild recog-

**APPRENTICESHIP AGREEMENT BETWEEN APPRENTICE  
AND JOINT APPRENTICESHIP COMMITTEE**

CHECK APPROPRIATE BOX

Vietnam-era Veteran     Other Veteran     Nonveteran

**PRIVACY ACT STATEMENT**

The information requested herein is used for apprenticeship program assistance purposes and may not be otherwise disclosed without the express permission of the undersigned official.

Privacy Act of 1974 P.L. 93-502

THIS AGREEMENT, entered into this (date) day of 19  
between the parties to (Name of local apprenticeship standards)

represented by the Joint Apprenticeship Committee hereinafter referred to as the COMMITTEE, and  
(Name of Apprentice) born (Month Day Year)

hereinafter referred to as the APPRENTICE and (if a minor) (Name of parent or guardian) hereinafter referred to as the GUARDIAN

**WITNESSETH THAT**

The Committee agrees to be responsible for the selection placement, and training of said apprentice in the trade of

as work is available, and in consideration said apprentice agrees diligently and faithfully to perform the work of said trade during the period of apprenticeship, in accordance with the regulations of the Committee. The apprenticeship standards referred to here in are hereby incorporated in and made a part of this agreement

*This AGREEMENT may be terminated by either party if the other party parties upon proper notification to the registering agency.*

SIGNATURE OF APPRENTICE  
ADDRESS (Number Street City State ZIP Code)  
SIGNATURE OF PARENT OR GUARDIAN  
SIGNATURE OF JOINT APPRENTICESHIP COMMITTEE REPRESENTATIVE  
SIGNATURE OF JOINT APPRENTICESHIP COMMITTEE SECRETARY  
NAME OF REGISTRAR AGENCY  
SIGNATURE AND TITLE OF AGENCY REPRESENTATIVE

| TRAINEE DATA   |   |
|--|---|
| APPRENTICESHIP TERM  | PROBATIONARY PERIOD   |
| CHECK (by previous trade experience)                                 | TERM REMAINING  |
| TO BE COMPLETED BY THE APPRENTICE                                    |   |
| SEX <input type="checkbox"/> Male<br><input type="checkbox"/> Female |   |
| RACE<br>ETHNIC GROUP   | <input type="checkbox"/> Caucasian/White<br><input type="checkbox"/> Negro/Black<br><input type="checkbox"/> Oriental<br><input type="checkbox"/> American Indian<br><input type="checkbox"/> Spanish American<br><input type="checkbox"/> Unknown (Do Not Annotate)<br><input type="checkbox"/> Not a Single Race Classified |
| HIGHEST EDUCATION LEVEL<br>(Check one)                               | <input type="checkbox"/> 8th grade or less<br><input type="checkbox"/> 9th grade or more<br><input type="checkbox"/> 12th grade or more   |
| DATE (Month Day Year)  |   |

**A Modern Apprenticeship Agreement**

*Apprentices in the building trades today are indentured to an area joint apprenticeship committee, which transfers them from one employer to another and no construction job to another, so that they may have experience in all kinds of work performed by journeymen.*

...nition of their status as "freemen." In the textile trade, for example, apprentices were required to produce several pairs of silk stockings before being freed. Shoemaker apprentices were required to make shoes, and needlemakers submitted examples of needles of various sizes that they had made.

Since modern apprentices in U.S. industry start producing almost immediately, and each job they do is carefully inspected, the production of a final test piece is not generally considered necessary. Moreover, the care with which apprenticeship candidates are selected and the entrance tests they are required to pass help to assure that those accepted for training will become skilled craft workers.

A modern equivalent of the early masterpiece, however, exists in the Chicago areawide apprenticeship program in which apprentices are trained in patternmaking for the production of foundry castings. As part of the final examination, each apprentice is required to produce, without supervision, a contract job ordered by a customer or a pattern-making shop. This job is judged by the area joint labor-management apprenticeship committee in charge of the program before the completion certificate is awarded.

10 Products made today by apprentices competing in national and area contests may also be likened to the final masterpiece of apprentices in early days. In several trades, such as bricklaying, electrical or sheetmetal work, painting, carpentry, plumbing, and pipefitting, cash prizes are awarded to apprentices who produce the best example of their craft. Public demonstrations of apprentices' abilities are also made in convention exhibits and at county fairs.

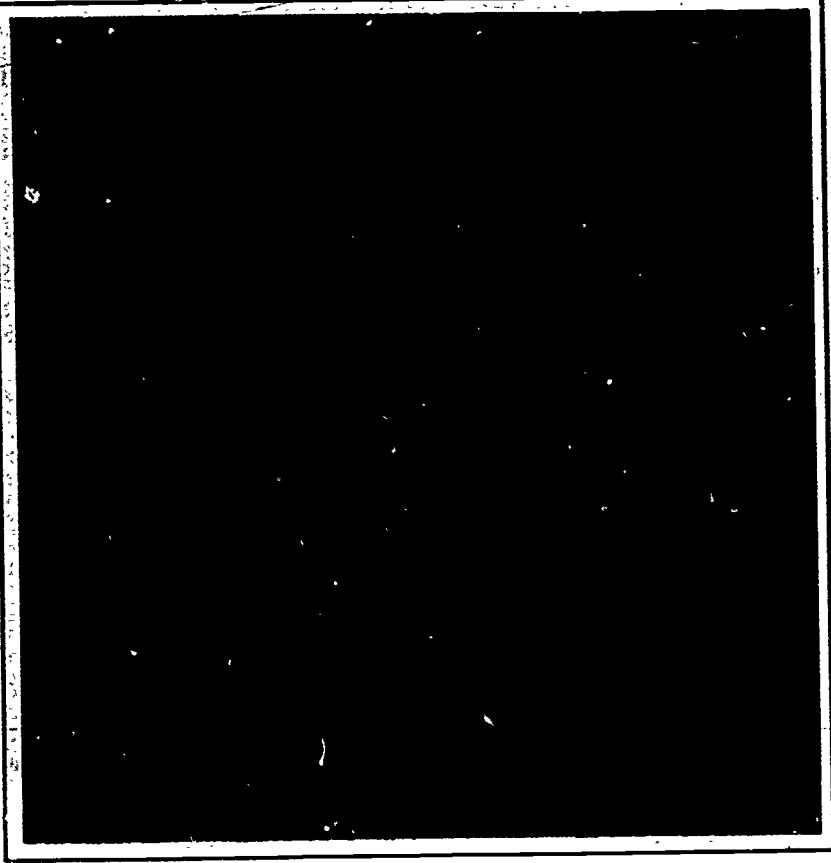
## Apprenticeship Undergoes Change

With the expansion of industry following the industrial revolution, the apprenticeship system was revolutionized to apply to the new machine age. The early system of "domestic apprenticeship," in which the apprentice lived with a master and was dependent upon the master for food and clothing as well as shelter, disappeared.

Compensation was changed by employers to the payment of wages that were, although insignificant compared with today's wages, graduated in accordance with a predetermined scale. The term "master," however, was continued in some trades, and "master machinist" and "master plumber" are still familiar terms.

The effect of the modern system of division of function began to make itself felt in the first half of the 19th century. In many trades, craft workers who in the past had engaged their apprentices for 5 years to teach them all aspects of the trade began to teach them only one part of the job that could be learned in a few months.

Apprenticeship systems, in keeping with the new era, were gradually



developed in the growing industries, at first in the iron foundries and shipbuilding yards, and later in machinery and electrical equipment plants, government arsenals, navy yards, and printing shops.

Not until the latter part of the 19th century were any apprenticeship systems begun that were at all comparable with those of today. But the number of plants in which apprentices were trained was limited and the training was, for the most part, somewhat sketchy when measured by modern standards. The great majority of skilled workers still came from abroad. Most of the workers who acquired their skills in this country learned on their own by watching and getting the advice of experienced workers, by sheer persistence, and by trial and error.

### **Graduated Wages for Apprentices**

An 1865 indenture used by the Pennsylvania Railroad provides one of the first examples of the graduated wage scale paid apprentices. It pre-

scribed 50 cents for a 10-hour day in the first 620 days of training, 60 cents a day in the next 310 days, and 80 cents a day for the balance of the apprenticeship term. A bonus of \$124 was paid if and when an apprentice completed training.

In the late 1960's, the starting wage for maintenance-of-equipment apprentices employed by railroads averaged \$2.51 an hour—more than five times the starting wage for 10 hours in 1865—and increased to \$2.91 during the final period.

## Wage Rates Lag

The machine age brought rapid advances in production, but working conditions and wages—especially for apprentices—lagged behind the times. What it was like to be an apprentice in an industrial plant in 1883 is described by a man who began his career in this way—Fred H. Colvin, later the editor of the *American Machinist* and a technical consultant and author. In his book, *60 Years with Men and Machines*, he says: "An apprentice in the machine shops of 1883 faced a situation not wholly unlike that of the craft guilds of the Middle Ages. In many cases the boy's parents had to reimburse the shop owner for teaching him the secrets of the trade."

He said of the Philadelphia machine shop in which he worked:

*A revolutionary new system was in effect—the shop owner actually paid the apprentice wages. He was careful, of course, not to turn the apprentice's head with money. In my own case, I began at the rate of 5 cents an hour for a sixty-hour week; or, to put it more impressively, I was paid \$3 in cash every Saturday night. . . . All overtime was paid at the regular straight-time rate of 5 cents an hour for young apprentices like myself. . . . At the end of the first month's apprenticeship, the wages were boosted by 16 $\frac{2}{3}$  percent, which meant a half a dollar a week extra in the pay envelope. What with promises of an additional 50-cent raise every six months thereafter, a young apprentice could see himself developing into a substantial citizen if he but lived long enough.*

A similar experience was that of John P. Frey, president of the American Federation of Labor's metal trades department for 16 years and a former labor member of the Federal Committee on Apprenticeship, the national body recommending policy to the Bureau of Apprenticeship and Training. He began his career in 1887 as a molder apprentice. In his first year of training, he was paid 75 cents for a 10- to 12-hour day, 6 days a week. His wage was increased 25 cents a day in his second year and another 25 cents in his third and last year as an apprentice. From



TERMS OF APPRENTICESHIP

Brown & Sharpe Manufacturing Company,

PROVIDENCE R I

Manufacturers of Fine Machinery and Machine Tools &c

This Agreement made and entered into this 11th day of January A D 1877 by and between the BROWN & SHARPE MANUFACTURING COMPANY a corporation duly incorporated and located in the City of Providence of the first part Ralph E Flanders of Providence R I of the second part and Walter W Flanders of Providence R I of the third part

Witnesseth that whereas the party of the second part is desirous of becoming an apprentice to said party of the first part for the purpose of acquiring the art or trade of machinist the said party of the first part in consideration of the sum of One Hundred Dollars to be paid by said party of the third part hereto accepts said party of the second part as an apprentice in the art or trade of machinist in accordance with and subject to the Terms of Apprenticeship hereto annexed and made a part hereof

And the party of the second part in consideration of such acceptance hereto agrees to become the apprentice of said party of the first part in the machinist art or trade in accordance with the Terms of Apprenticeship hereto annexed, and to faithfully conform with the provisions thereof

And the party of the third part in consideration of the execution of this agreement by said party of the first part for himself his heirs executors and administrators covenants and agrees to and with said party of the first part that the party of the second part shall well and truly conform to and abide by all the provisions of said Terms of Apprenticeship and in case said party of the second part shall in any wise violate any of the provisions thereof or shall abandon such apprenticeship before the expiration thereof without the consent of said party of the first part to pay to said party of the first part the sum of One Hundred Dollars as ascertained and liquidated damages for such breach of contract

And the parties of the second and third parts respect vey for the considerations above set forth also hereby covenant and agree to and with said party of the first part that in the event the said apprentice shall be discharged for unfaithfulness nonconformity with the rules and regulations which are or may be adopted for the good government of the shop want of diligence and henceforth his business or any other conduct in or out of the shop or shall abandon such apprenticeship before the expiration thereof without the consent of said party of the first part a wages then earned by said party of the second part and unpaid shall be forfeited

And the party of the first part further covenants and agrees that in the event that said party of the second part shall remain its apprentice during the full term of apprenticeship (including the making up of list times as provided in the annexed Terms of Apprenticeship) and shall in all respects comply with the provisions of said Terms of Apprenticeship and shall not be discharged by reason of non-compliance therewith to pay to said party of the third part in consideration of such faithful service on the part of said apprentice the sum of One Hundred Dollars

In Witness Whereof, the parties aforesaid have hereunto set their hands and seals the party of the first part by Walter W Sharpe its President duly authorized for that purpose the day and year first above written.

Witness  
in presence of

Brown & Sharpe Mfg Co.  
W. Sharpe Pres.

Walter W Flanders

Ralph E Flanders

I hereby certify that Ralph E Flanders has accepted the full term of apprenticeship according to the above agreement  
Feb 9 1877 Brown & Sharpe Mfg Co. Providence, R.I.

the beginning of his apprenticeship, he did practically the same work as helpers who then received \$1.50 a day.

But both Fred Colvin and John Frey fared better at the start of their training than some other apprentices of the time. The 1895 indenture of Harley F. Nickerson, who later became a general vice president of the International Brotherhood of Machinists shows that he worked for nothing during a probationary 3-month apprenticeship period. In the next 9 months, he was paid \$3 a week. His earnings from then on were about the same as Colvin's were 12 years before. No agreement was made to teach the youthful Nickerson the trade of machinist, nor was there any commitment on the part of the employer to do anything except pay the rates agreed upon for time actually worked, plus \$100 when and if the apprenticeship was completed.

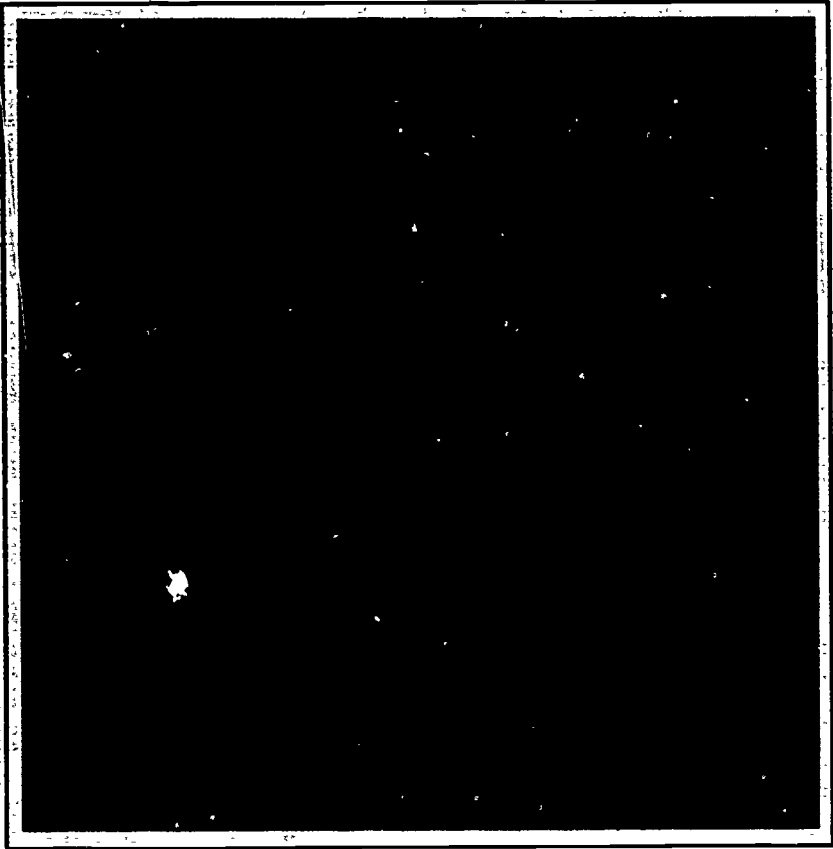
### Important Careers Begin With Apprenticeship

Many other industrial and government leaders began their working careers in apprenticeable trades. One was Charles E. Sorensen, a skilled patternmaker (and son of a patternmaker) who became a production genius.

14 Sorensen for many years was Henry Ford's right-hand man and, according to the *New York Times*, "He formulated the concept for the moving assembly line, worked out on a blackboard the economics of the \$5 day, and built the River Rouge Plant. He also built the mile-long Willow Run bomber plant which turned out a B-24 bomber every hour during World War II."

Ralph E. Flanders of Vermont, who became a distinguished U.S. Senator, began his working life as a machinist apprentice in 1897. He worked 10 hours a day and received 4 cents an hour in the first year, and a few cents more during the second and third years of his apprenticeship. His annual wage in his last year of training was \$295. He has described his apprenticeship as an old-fashioned one because he was legally indentured. His father was required to post a cash bond to be forfeited if the training was not completed. Young Flanders successfully finished his training, however, and later received degrees from various universities. He had an extensive industrial career before entering public life.

A Patrick V. McNamara of Michigan was another apprentice who became a U.S. Senator. Encouraged by his father, he began as a plumber apprentice in 1913 with a wage of only 9 cents an hour for an 8-hour day. By his third year he was paid 14 cents an hour, or \$1.12 a day. He completed his apprenticeship a year ahead of schedule by working additional hours on special assignments. Following his apprenticeship in the plumbing trade, he worked as journeyman and then as a supervisor on construction jobs. He was active in labor affairs, and served for 20 years



as president of the Detroit branch of the United Association of Journeymen and Apprentices in the Pipe Fitting Industry.

Clyde Webber, who was president of the largest union representing government employees, the American Federation of Government Employees (AFGE), began his working career as an apprentice machinist helper in 1936. He attended evening school and completed his high school education while working in the round-house for the Union Pacific Railroad in Ogden, Utah.

After becoming a journeyman machinist, he continued to educate himself while serving as the Ogden city recorder until he was appointed to the staff of the Bureau of Apprenticeship and Training, where he served in many important capacities. He was active in national and international labor affairs and served on the AFL-CIO Executive Council as vice-president.

## First Apprenticeship Legislation

The first legislation in the United States to promote an organized system of apprenticeship was enacted in Wisconsin in 1911. The law placed apprenticeship under the jurisdiction of an industrial commission. This followed the enactment of State legislation requiring all apprentices to attend classroom instruction 5 hours a week.

In the 1920's national employer and labor organizations, educators, and Government officials began a concerted effort to bring about a national, uniform apprenticeship system. In the forefront of this movement were representative groups of the construction industry.

The need for comprehensive training of apprentices had become a vital necessity in the boom days following World War I. Immigration was curtailed after the war, so fewer skilled workers were entering from other countries.

The combined effort of the various groups led in 1934 to the participation of the Federal Government in the national promotion of apprenticeship. The Federal Committee on Apprenticeship, composed of representatives of Government agencies, was appointed by the Secretary of Labor to serve as the national policy-recommending body on apprenticeship in the United States. It was to assume the responsibilities with respect to apprentices and their training under industrial codes formulated by the National Recovery Administration.

## National Apprenticeship Law Is Enacted

In 1937 Congress passed the National Apprenticeship Law. This law, popularly known as the Fitzgerald Act, was enacted "to promote the furtherance of labor standards of apprenticeship . . . to extend the application of such standards by encouraging the inclusion thereof in contracts of apprenticeship, to bring together employers and labor for the formulation of programs of apprenticeship, to cooperate with State agencies in the formulation of standards of apprenticeship."

## Modern Apprenticeship Programs

The Fitzgerald Act of 1937 set the pattern for today's system of Federal Government assistance in apprenticeship programs. The Federal Committee on Apprenticeship was reorganized and enlarged to include equal representation of employers and labor, plus a representative of the U.S. Office of Education. The Apprentice-Training Service (now the Bureau of Apprenticeship and Training) was established as the national

## THE NATIONAL APPRENTICESHIP ACT

(50 Stat. 663; 29 U. S. C 50)

To enable the Department of Labor to formulate and promote the furtherance of labor standards necessary to safeguard the welfare of apprentices and to cooperate with the States in the promotion of such standards.

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That the Secretary of Labor is hereby authorized and directed to formulate and promote the furtherance of labor standards necessary to safeguard the welfare of apprentices, to extend the application of such standards by encouraging the inclusion thereof in contracts of apprenticeship, to bring together employers and labor for the formulation of programs of apprenticeship, to cooperate with State agencies engaged in the formulation and promotion of standards of apprenticeship, and to cooperate with the National Youth Administration and with the Office of Education of the Department of the Interior in accordance with section 6 of the Act of February 23, 1917 (39 Stat. 932), as amended by Executive Order Numbered 6166, June 10, 1933, issued pursuant to an Act of June 30, 1932 (47 Stat. 414), as amended.

SEC. 2. The Secretary of Labor may publish information relating to existing and proposed labor standards of apprenticeship, and may appoint national advisory committees to serve without compensation. Such committees shall include representatives of employers, representatives of labor, educators, and officers of other executive departments, with the consent of the head of any such department.

SEC. 3. On and after the effective date of this Act the National Youth Administration shall be relieved of direct responsibility for the promotion of labor standards of apprenticeship as heretofore conducted through the division of apprentice training and shall transfer all records and papers relating to such activities to the custody of the Department of Labor. The Secretary of Labor is authorized to appoint such employees as he may from time to time find necessary for the administration of this Act, with regard to existing laws applicable to the appointment and compensation of employees of the United States: *Provided, however,* that he may appoint persons now employed in division of apprentice training of the National Youth Administration upon certification by the Civil Service Commission of their qualifications after nonassembled examinations.

SEC. 4. This Act shall take effect on July 1, 1937, or as soon thereafter as it shall be approved.

Approved, August 16, 1937.

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administrative agency in the Department of Labor to carry out the objectives of the law, guided by the recommendations of the Federal Committee on Apprenticeship.

Since 1937, the Bureau of Apprenticeship and Training has worked closely with employer and labor groups, vocational schools, State apprenticeship agencies, and others concerned with apprenticeship programs in U.S. industry. It has field representatives in the 50 States. Its functions are advisory and promotional. It does not itself conduct training programs.

A major means for promoting apprenticeship is through a wide exchange of information on the advantages and methods of well-organized and well-run apprenticeship programs. The Bureau of Apprenticeship and Training disseminates this information widely through newspapers, industrial periodicals, discussions at annual conventions of employer associations and unions, and regional apprenticeship conferences.

About 425 apprenticeable occupations—most of them in the construction, manufacturing, transportation, and service industries—are covered in registered programs. More than 291,000 apprentices were at work in these programs as of December 1974, the largest number there has ever been.

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## **Certificates of Completion**

When apprentices finish their training, they receive certificates of completion of apprenticeship. These are issued by the State apprenticeship agencies or, in those States not having such an agency, by the Bureau of Apprenticeship and Training in accordance with its recommended standards.

## **Joint Apprenticeship Committees**

Joint apprenticeship committees, composed of representatives of management and labor, work together to develop and administer local apprenticeship training programs. In addition to local groups, national trade committees represent national organizations. With the help of the Bureau of Apprenticeship and Training, the national committees formulate policies on apprenticeship in the various trades and issue basic standards to be used by affiliated organizations.

## **Basic Standards for Apprenticeship**

Programs registered by the Bureau of Apprenticeship and Training must provide that—

- ✓ the starting age of an apprentice is not less than 16;
- ✓ there is full and fair opportunity to apply for apprenticeship;

# Certificate of Completion of Apprenticeship

United States Department of Labor  
Bureau of Apprenticeship and Training

1116 American Revolution Bicentennial Year 1976  
this is to certify that

has completed an apprenticeship in the trade of

under the supervision of

in accordance with the standards recommended by the  
Federal Committee on Apprenticeship



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## A Certificate of Completion

A Certificate of Completion of Apprenticeship, awarded an apprentice when he has completed his training, is issued by the State apprenticeship agency or the Federal Committee on Apprenticeship in States in which no such agency is established.

- ✓ there is a schedule of work processes in which an apprentice is to receive training and experience on the job;
- ✓ the program includes organized instruction designed to provide apprentices with knowledge in technical subjects related to their trade (a minimum of 144 hours per year is normally considered necessary);
- ✓ there is a progressively increasing schedule of wages;
- ✓ proper supervision of on-the-job training with adequate facilities to train apprentices is insured;
- ✓ the apprentice's progress, both in job performance and related instruction, is evaluated periodically and appropriate records are maintained;
- ✓ there is employee-employer cooperation;
- ✓ successful completions are recognized; and
- ✓ there is no discrimination in any phase of selection, employment, or training.

## Apprenticeship Values for Youth and Industry

For young persons just starting out in the world of work, apprenticeship has important advantages. It offers an efficient way to learn skills, for the training is planned and organized and is not hit-or-miss.

The apprentices earn as they learn, for they are already workers. When their apprenticeship is completed, youth are assured of a secure future and a good standard of living because training is in the crafts where skills are much in demand. Opportunities for employment and advancement open up with the recognition that the apprentices are now skilled craft workers.

Industry, too, benefits greatly. Out of apprenticeship programs come all-round craft workers competent in all branches of their trades and able to work without close supervision because their training has enabled them to use imagination, ability, and knowledge in their work. When changes are made in production, these workers provide the versatility needed for quick adaptation of work components to suit the changing needs. An adequate supply of skilled workers with these qualities is vital to industrial progress.

20 One important way that apprenticeship trained workers contribute to industry is in supervisory positions. Apprenticeship provides not only many supervisors on our production lines, but also many top-level officials in American business. A survey conducted by the Associated General Contractors of America showed that 90 percent of the top officials of construction companies who replied—presidents, vice presidents, owners, and partners—began their careers as apprentices. Many of the project managers, superintendents, and craft supervisors employed by those companies also began as apprentices.

Another survey, conducted by a large manufacturer of electrical and automotive equipment, revealed that 40 percent of the 300 apprentice graduates still on the company's payroll held important supervisory or executive positions.

## New Directions in Apprenticeship

The apprenticeship system has grown up with America. Like America, it is still growing and changing. Today it serves a far different Nation from the one of pioneer days. Scientific discoveries, new teaching methods, expanding industry, a booming population, a determination of people to live not only free but equal—these are among the demands of





our present-day technological and social systems to which apprenticeship is responding.

To meet the need for changes in production methods and products, apprenticeships have been set up in new trades, and apprenticeships in many of the older trades have been updated.

For example, in recent years a new apprenticeship program has been created to train orthotic and prosthetic technicians. Workers in this expanding field fabricate devices known as orthoses and prostheses, which help thousands of people who have disabling conditions of the limbs and spine or other crippling ailments to move around on their own. These technicians are expected to keep abreast of all new fabricating techniques.

### **Women in Apprenticeship**

Increasing numbers of women in apprenticeship reflect some of our changing attitudes about whose hands may do our skilled work.

From 1900 to 1960, each decennial census showed that women held

only 2 to 3 percent of the jobs in skilled trades, a figure that varied only during World War II. But by 1970 women had nearly doubled their share, holding 5 percent of the jobs in skilled trades. They accounted for nearly half a million skilled trade workers.

All skilled trades now report at least some women at work. They include such traditionally "men's" jobs as automobile mechanics, carpenters, heavy equipment mechanics, and telephone installation and repair workers.

Despite this progress, many women still do not use the apprenticeship route to a well-paid occupation. The majority of women in apprenticeship are found in cosmetology and a few other trades. Through federally funded outreach programs, the Department of Labor and local and national organizations are trying to broaden the horizons of women, counselors, prospective employers, and apprenticeship councils:

### **Apprenticeships for the Disadvantaged**

Another large group of people is being drawn into apprenticeship. These people are the disadvantaged and handicapped in our society—important resources the Nation has only begun to draw upon.

22 When the Nation became aware that a vast pool of Americans was being left out of main areas of employment, and began to focus on correcting this deficiency as a national policy, new programs and policies to train and open up improved job opportunities for the disadvantaged were begun. These people were working in marginal, generally low-skilled, and low-paying jobs. Some were out of work. They included people of all races. Many were rural workers whose attempts to farm no longer provided them with enough to live on, or youth under 22 years old who lacked suitable jobs. The potential of all these people for higher skills had been practically ignored.

To help open the way into the skilled crafts and trades, Federal regulations on nondiscrimination in apprenticeship and training were put into effect by the Secretary of Labor. They set out policies and procedures for equality of opportunity—without regard to race, creed, color, national origin, sex, or occupationally irrelevant physical requirements—in apprenticeship programs registered with the Bureau of Apprenticeship and Training. Apprenticeship agencies in the States adopted their own State equal opportunity plans consistent with the Federal regulations.

But more than regulations are needed. Youth in disadvantaged groups often know little about apprenticeship and how to find openings or how to pass entrance examinations. To meet these needs, apprenticeship "outreach" programs were begun to inform these youth of apprenticeship opportunities and to prepare them to compete successfully for the limited

openings in apprenticeship programs. The programs operate under title III of the Comprehensive Employment and Training Act of 1973. They are carried on under contracts with the Department of Labor by private, interested groups such as building and construction trades councils of the AFL-CIO; the Urban League; the United Automobile, Aerospace and Agricultural Implement Workers of America (UAW); and the Negro Trade Union Leadership Council.

As a result of the new policies and the outreach programs, there has been a gradual but steady increase in the number of disadvantaged youth and minorities in apprenticeship training. As of June 30, 1974, blacks made up 8.3 percent of all registered apprentices, and members of other minorities made up 7.5 percent.

### **Apprenticeship Information Centers**

In many key labor market areas, Apprenticeship Information Centers have been set up. Used by thousands of young people, the centers are operated by the State employment services. They provide a wide range of information on apprenticeship and also counsel applicants. In addition, the centers screen applicants for referral to employers, unions, and the local joint apprenticeship and training committees for final selection of the youth to receive training.

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### **Apprenticeship Preparatory Courses**

To attract more able young men and women to apprenticeship in the years when they are making career decisions, apprenticeship preparatory courses are given in high schools and vocational and technical schools. These acquaint youth with the great opportunities in crafts and trades and give them some theoretical and technical instruction in specific fields.

### **Apprenticeship Prejob Programs**

Apprenticeship prejob programs provide on-the-job training for 6 to 8 weeks. Their purpose is to introduce potential apprentices to specific skilled trades and to determine their suitability for the particular work involved. When students successfully complete the introductory period, they may continue with placement in regular apprenticeship training programs.

### **Veterans in Apprenticeship**

For eligible veterans, apprenticeship offers special opportunities. When they enter approved apprenticeship programs, they may receive—in addition to their wages—a monthly training assistance allowance for up to 48 months under the Veterans' Pension and Readjustment Assistance Act of

1967. The amount they may receive is determined by the period of training they are in and the number of dependents they have.

In addition, some Army veterans will be already eligible for journeyman status when they are discharged, as the result of an agreement between the Army and the Department of Labor. Under the plan, the Army will develop training programs in apprenticeable occupations, such as operation and repair of heavy equipment, with the help of labor and management representatives of that craft. A soldier's work experience in the craft will be counted toward the credits required for journeyman status. Those who fall short of the required credits at the time of discharge will be counseled at Army Education Centers on how to meet the remaining requirements.

## Looking Forward

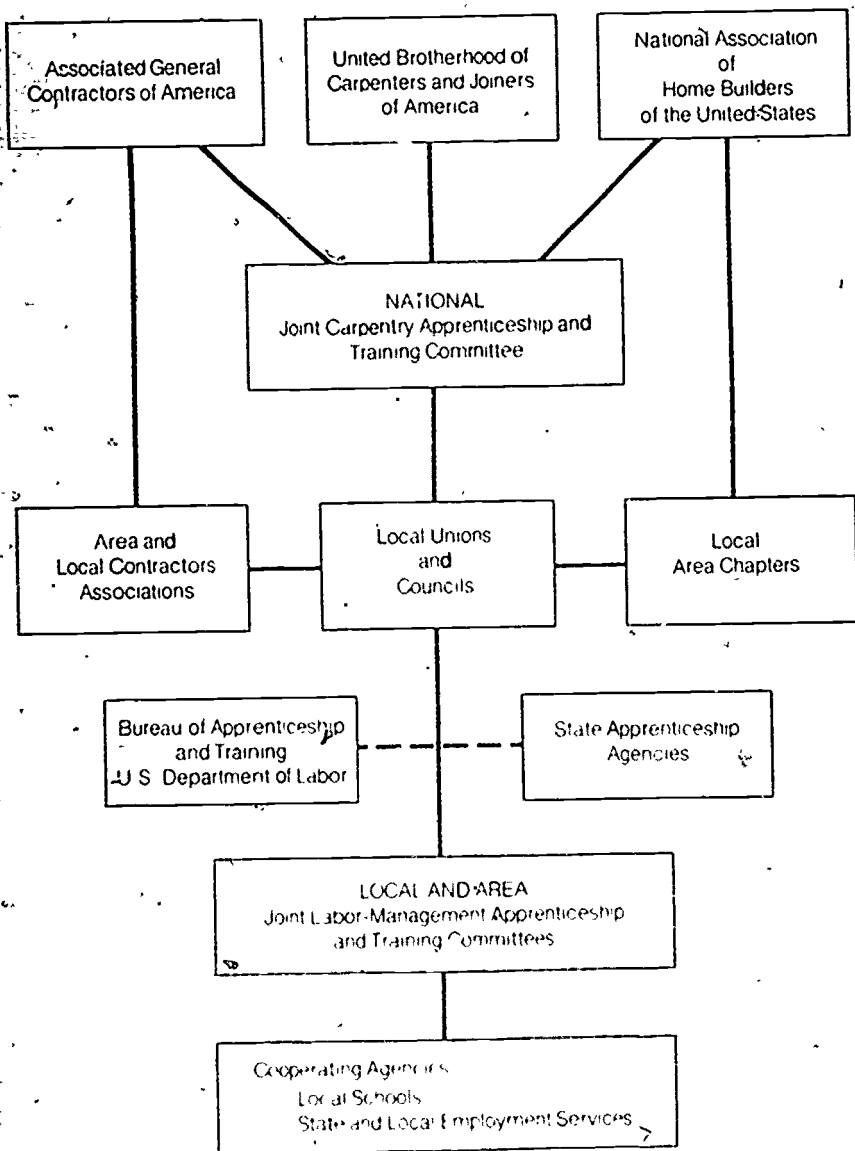
24 Rapid changes in our industrial system require a large body of skilled workers who are able to carry out technical specifications and who can supervise less skilled members of the work force.

Women in apprenticeship and in skilled craft jobs will become more numerous, and new opportunities will open up for minorities as non-discrimination requirements are enforced.

Projections of employment opportunities show great needs for skilled workers. National projections of skilled worker requirements prepared by the Bureau of Labor Statistics, U.S. Department of Labor, indicate a rise in the number of skilled workers from 11 million in 1975 to 13.7 million in 1985.

Apprenticeship has served in many periods of history. Today it is clear that this method for teaching and learning skills systems remains one of the best ways of training skilled craft workers. But there is still much work to do.

## APPRENTICESHIP AND TRAINING SYSTEM OF THE CARPENTRY TRADE



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*Industry and labor work together to form apprenticeship standards in the crafts and trades and to supervise programs. The chart above is an example of how this cooperation works in the carpentry trade.*

## STATE AND TERRITORIAL APPRENTICESHIP AGENCIES

### Apprenticeship Services

Department of Economic Security  
P.O. Box 6123  
Phoenix, Ariz. 85005

### Division of Apprenticeship Standards

Department of Industrial Relations  
455 Golden Gate Avenue  
P.O. Box 603  
San Francisco, Calif. 94102

### Colorado Apprenticeship Council

State Centennial Building  
1313 Sherman Street  
Room 423  
Denver, Colo. 80203

### Apprentice Training Division

Labor Department  
200 Folly Brook Boulevard  
Wethersfield, Conn. 06109

### Delaware State Apprenticeship and Training Council

Department of Labor and Industrial  
Relations  
618 North Union Street  
Wilmington, Del. 19305

### District of Columbia Apprenticeship Council

605 G Street, NW., 10th Floor  
Washington, D.C. 20001

### Bureau of Apprenticeship

Florida State Department of Commerce  
321 Executive Center Drive  
Tallahassee, Fla. 32301

### Apprenticeship Division

Department of Labor and Industrial  
Relations  
825 Mililani Street  
Honolulu, Hawaii 96813

### Apprentice Training Division<sup>1</sup>

Kansas Apprenticeship Council  
Department of Labor  
401 Topeka Boulevard  
Topeka, Kans. 66603

### Kentucky State Apprenticeship Council

Capitol Plaza Tower, 12th Floor  
Frankfort, Ky. 40601

### Division of Apprenticeship

Department of Labor  
1001 Land and Natural Resources Bldg.  
P.O. Box 44613  
Baton Rouge, La 70804

### Maine Apprenticeship Council

Department of Labor and Industry  
State Office Building  
Augusta, Maine 04330

### Maryland Apprenticeship and Training Council

Department of Labor and Industry  
203 East Baltimore Street  
Room 1108  
Baltimore, Md. 21202

### Division of Apprentice Training

Department of Labor and Industries  
State Office Building  
Government Center  
100 Cambridge Street  
Boston, Mass. 02202

### Division of Voluntary Apprenticeship

Department of Labor and Industry  
Space Center Bldg. 5th Floor  
44 Lafayette Road  
St. Paul, Minn. 55101

### Montana State Apprenticeship Council

Division of Labor Standards  
1331 Helena Avenue  
Helena, Mont. 59601

### Nevada Apprenticeship Council

Department of Labor  
Capitol Complex  
Carson City, Nev. 89701

### New Hampshire Apprenticeship Council

Department of Labor  
1 Pillsbury Street  
Concord, N.H. 03301

### New Mexico Apprenticeship Council

Labor and Industrial Commission  
Suite 212  
2340 Menaul NE.  
Albuquerque, N. Mex. 87101

<sup>1</sup> All agencies, with the exception of Kansas, operate under apprenticeship and/or training laws enacted by the legislature. The agency in Kansas functions under executive order of the Governor

## STATE AND TERRITORIAL APPRENTICESHIP AGENCIES (Continued)

**Bureau of Apprentice Training**  
Department of Labor  
The Campus, Building No. 12  
Albany, N.Y. 12226

**Division of Apprenticeship Training**  
Department of Labor  
Raleigh, N.C. 27602

**Ohio State Apprenticeship  
Council**  
Department of Industrial Relations  
2323 West Fifth Avenue, Room 250  
Columbus, Ohio 43215

**Apprenticeship and Training  
Division**  
State Office Bldg., Room 446  
1400 S.W. Fifth Street  
Portland, Oreg. 97201

**Pennsylvania Apprenticeship and  
Training Council**  
Department of Labor and Industry  
Labor and Industry Bldg., Room 1547  
Harrisburg, Pa. 17120

**Apprenticeship Division**  
Department of Labor  
414 Barbosa Avenue  
Hato Rey, P.R. 00917

**Rhode Island Apprenticeship  
Council**  
Department of Labor  
235 Promenade Street  
Providence, R.I. 02908

**Utah Apprenticeship Council**  
#28 East 2100 South  
Suite 104  
Salt Lake City, Utah 84115

**Vermont Apprenticeship Council**  
Department of Industrial Relations  
State Office Building  
Montpelier, Vt. 05602

**Division of Apprentice Training**  
Department of Labor and Industry  
P.O. Box 1814  
Ninth Street Office Bldg., Room 334  
Richmond, Va. 23214

**Director of Apprenticeship and Training**  
Department of Labor  
Christianssted, St. Croix, V.I. 00820

**Apprenticeship Division**  
Department of Labor and Industries  
318 East Fourth Avenue  
Olympia, Wash. 98504

**Division of Apprenticeship and Training**  
P.O. Box 2209  
Madison, Wis. 53701

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# REGIONAL OFFICES

## BUREAU OF APPRENTICESHIP AND TRAINING

| Location  | States Served                             |  |
|---|---|--|
| <b>Region I</b><br>JFK Federal Bldg., Room 1001<br>Government Center<br>Boston, Mass. 02203               | Connecticut<br>Maine<br>Massachusetts     | New Hampshire<br>Rhode Island<br>Vermont                     |
| <b>Region II</b><br>1515 Broadway, 37th Floor<br>New York, N.Y. 10036                                     | New Jersey<br>New York                    | Puerto Rico<br>Virgin Islands                                |
| <b>Region III</b><br>P.O. Box 8796<br>Philadelphia, Pa. 19101   | Delaware<br>Maryland<br>Pennsylvania      | Virginia<br>West Virginia                                    |
| <b>Region IV</b><br>1371 Peachtree Street, NE., Room 700<br>Atlanta, Ga. 30309                            | Alabama<br>Florida<br>Georgia<br>Kentucky | Mississippi<br>North Carolina<br>South Carolina<br>Tennessee |
| 28 <b>Region V</b><br>300 South Wacker Drive, 13th Floor<br>Chicago, Ill. 60606                           | Illinois<br>Indiana<br>Michigan           | Minnesota<br>Ohio<br>Wisconsin                               |
| <b>Region VI</b><br>555 Griffin Square Bldg.<br>Griffin and Young Streets, Room 856<br>Dallas, Tex. 75201 | Arkansas<br>Louisiana<br>New Mexico       | Oklahoma<br>Texas  |
| <b>Region VII</b><br>Federal Office Bldg., Room 1100<br>911 Walnut Street<br>Kansas City, Mo. 64106       | Iowa<br>Kansas                            | Missouri<br>Nebraska   |
| <b>Region VIII</b><br>New Custom House, Rm 476<br>721 19th Street<br>Denver, Colo. 80294                  | Colorado<br>Montana<br>North Dakota       | South Dakota<br>Utah<br>Wyoming                              |
| <b>Region IX</b><br>450 Golden Gate Avenue, Room 9008<br>P.O. Box 36017<br>San Francisco, Calif. 94102    | Arizona<br>California                     | Hawaii<br>Nevada   |
| <b>Region X</b><br>8014 Federal Office Bldg.<br>909 First Avenue<br>Seattle, Wash. 98174                  | Alaska<br>Idaho                           | Oregon<br>Washington   |