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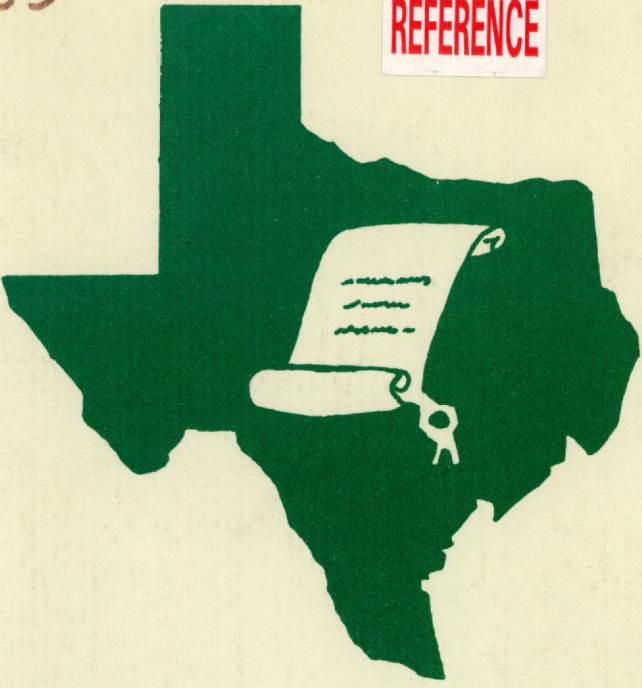
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**Directory of Licensed Occupations  
and  
Apprenticeship Programs in Texas**

Published by  
Information Services Division  
Texas State Library  
for the  
Texas State Occupational Information  
Coordinating Committee

September 1983

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Austin, Texas 78778

REVISED EDITION

# INTRODUCTION

Since original publication of the Directory of Licensed Occupations and Apprenticeship Programs in Texas in 1980, numerous changes in laws and regulations have occurred. Two occupations listed in the 1980 Directory -- social psychotherapist and dental assistant -- are no longer licensed, and 12 occupations have been added. We offer this new edition in an effort to keep the Directory as current, and therefore as useful, as possible.

This Directory provides up-to-date, minimum requirements for professions and occupations licensed by the State of Texas. These and other occupations or professions may also be licensed by counties and cities, and interested individuals should check with local authorities. It is hoped that this Directory will be useful to students, counselors, and others who are looking for current, accurate guidance in making career choices.

The information in this Directory was taken from materials supplied by each of the licensing agencies and occupational or professional associations, as well as from examination of the appropriate Texas statutes and regulations, through the 68th Texas Legislature. Employment figures and projections were taken, when available, from the Coordinating Board of Texas Colleges and Universities publication, Postsecondary Educational Supply and Occupational Demand in Texas. Information in other cases came from the Texas Employment Commission publication, Texas Occupational Demand Forecast 1985. Salary information also came from professional or occupational associations, or from experienced practitioners. When only national figures could be found, these were supplied by the national association for the respective profession or occupation. Terms used to describe outlook for each occupation are defined by the Coordinating Board as: excellent -- demand much greater than supply; very good -- demand greater than supply; balanced -- demand and supply about equal; competitive -- demand less than supply.

The information on apprenticeship was obtained largely from conversations with Dan Lowe, Coordinator of the Apprenticeship and Training Advisory Committee. This section will familiarize users with the rapidly developing area of apprenticeship training. The data, names, addresses, and telephone numbers provide a starting point for discovering what programs are available in the State.

It is hoped that this Directory will be re-published in a timely manner to maintain its accuracy.

The author, Rosemary Neff, and editor, Bonnie Grobar, wish to thank the licensing agencies and professional associations for their cooperation in producing this Directory.





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## Job Description

Accountants compile, analyze, and prepare financial reports for individuals and businesses. They specialize in auditing, tax accounting, management counseling, or budgeting and control. General accountants may devise budget and cost systems, maintain records, and balance the books. Auditors examine bookkeeping records of clients for accuracy and completeness. Tax accountants prepare tax returns for individuals, businesses or corporations, and may analyze the effects of taxes on the operation. Other related positions for accountants are as internal revenue agents or investigators, and bank examiners.

## Job Requirements

- \* ability to work independently
- \* ability to think logically
- \* precision

## License Requirements (VACS 41a-1) (22 TAC 515)

- \* United States citizenship, or maintain permanent legal residence in Texas for 6 months, or reside in Texas for 90 days
- \* at least 18 years of age
- \* good moral character
- \* specialized education and training

### Examination

- \* accounting theory and practice
- \* commercial law
- \* auditing

### Restrictions on Licensing

- \* dishonesty, fraud, or gross negligence
- \* conviction of a felony or any crime involving dishonesty or fraud
- \* fraud or deceit in obtaining certification

### Fees Not to Exceed

- \* \$150.00 for examination
- \* \$ 60.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas State Board of Public Accountancy  
1033 La Posada, Suite 340  
Austin, Texas 78752-3894  
512/451-0241

## Education/Training

- \* 2 years college study, including at least 20 hours accounting or related subjects, and 6 years experience in accountancy; OR
- \* bachelor's degree with major in accounting, or equivalent, plus two years experience in accountancy; OR
- \* master's degree in accounting or business administration, plus one year of experience in accountancy

For a listing of schools, SEE --

Directory of Schools Certificated Under Texas Proprietary School Act

## Working Conditions

- \* occasional long hours and overtime
- \* may work under deadlines
- \* may involve travel

## Career Opportunities/Employment Outlook

There are three major areas of specialization within the field of accountancy: public, management and government. Public accountants own or work for independent accounting firms. Management accountants handle the financial records of their employers, usually large firms. Government accountants audit businesses and individuals whose financial affairs are subject to government regulations. Approximately 60% of all accountants are employed as management accountants. A small number are employed as teachers in colleges. Most accountants work in large urban areas where major industries are located.

The demand for accountants is expected to rise, due to the importance of accurate financial records needed by companies. Government legislation to monitor business activities will also add to the demand. In Texas, the outlook for accountants is very good. In 1978, 46,900 accountants were employed. The projected figure for 1985 is 63,900.

Beginning salaries within Texas are averaging \$18,000 to \$21,000 for college graduates.

For more information on a career in accountancy, CONTACT --

Texas Society of Certified Public Accountants  
1111 West Mockingbird Lane, Suite 201  
Dallas, Texas 75247  
214/630-8900

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	VERY GOOD

## Job Description

Architects provide professional design service to clients planning a building project. Their work includes everything from preliminary design to finished building. Architects are expected to know construction methods, engineering principles and practices, and materials selection. They work closely with clients and crews throughout all phases of construction. Buildings designed by architects range from industrial factories to private homes. They also may be involved in site selection, cost studies, and long-range site planning. Specializations within the profession include landscape architecture, urban planning, and building appraisal.

## Job Requirements

- \* talent for design work
- \* creative mind
- \* understanding of business principles

## License Requirements (VACS 249a) (22 TAC 1)

- \* specialized education and training

### Examination

- \* site planning and design test
- \* professional test (for those with accredited degrees); OR
- \* qualifying test (for those without accredited degrees)

### Restrictions on Licensing

- \* violation of registration law
- \* gross incompetence in the practice of architecture
- \* recklessness in construction
- \* conviction of a felony

### Fees Not to Exceed

- \* \$100.00 or fee prescribed by Board for examination
- \* \$ 10.00 for application
- \* \$ 50.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas Board of Architectural Examiners  
8213 Shoal Creek Boulevard, Suite 107  
Austin, Texas 78758  
512/458-1363

## Education/Training

- \* professional degree in architecture, plus three years experience in the office of a registered architect; OR
- \* combination of 8 years experience and education

For a listing of schools, CONTACT --  
Texas Board of Architectural Examiners

## Working Conditions

- \* outdoor site visitations
- \* travel may be required

## Career Opportunities/Employment Outlook

Beginning architects usually work as junior drafters in architectural firms. After a few years of experience, they may advance to senior drafter or supervisory positions. Architects may also work as designers, contract administrators, or specification writers. Approximately half of all architects are self-employed. The rest are employed by private or governmental organizations. Most architects are located in large cities.

The employment outlook for architects is balanced in Texas, with better opportunities in areas with increased construction, such as the South. In Texas, the average annual employment for architects is expected to increase from 3,500 in 1978 to 4,800 in 1985. Architects specializing in urban redevelopment will find increased opportunity for employment in large cities.

Salaries of beginning architects in Texas range from \$16,000 to \$18,000.

For more information on a career in architecture, CONTACT --  
Texas Society of Architects  
2121 Austin National Bank Tower  
Austin, Texas 78701  
512/478-7386

## At a Glance . . .

postsecondary schooling?	YES, 4-5 YEARS
minimum age requirement?	NO
examination required?	YES
employment outlook?	BALANCED

# ATHLETIC TRAINER

D.O.T. 153.224

## Job Description

Athletic trainers have the responsibility of maintaining the maximum physical fitness of their athletes. They use various methods of treatment including diet, exercise, massage, heat, light and cold. Under the supervision of the team physician, athletic trainers may treat chronic minor injuries and administer first aid when needed. They understand the interaction of muscles within the body, and apply this knowledge to the treatment of injuries incurred.

## Job Requirements

- \* manual dexterity
- \* physical stamina
- \* understanding and sympathy
- \* tact and resourcefulness

## License Requirements (VACS 4512d)

- \* specialized education and/or training

### Examination

- \* written
- \* practical
- \* transcripts may be required

### Restrictions on Licensing

- \* conviction of a felony, or misdemeanor involving moral turpitude
- \* violation of registration law
- \* license fraudulently obtained

### Fees Not to Exceed

- \* \$20.00 for examination
- \* \$25.00 for license
- \* \$10.00 for annual renewal

For more information on licensing requirements, CONTACT --

Board of Athletic Trainers  
1100 West 49th Street  
Austin, Texas 78756  
512/458-7538

## Education/Training

- \* college degree meeting athletic training curriculum requirements;  
OR
- \* degree or certificate in physical therapy and completion of basic athletic training course, plus two years apprenticeship; OR
- \* degree in corrective therapy with at least a minor in physical therapy or health, which included basic athletic training course, plus two years apprenticeship or other requirements established by Board

**For a listing of schools, CONTACT --**  
Board of Athletic Trainers

## Working Conditions

- \* may work irregular hours
- \* can work indoors or outdoors

## Career Opportunities/Employment Outlook

Athletic trainers are usually employed by school districts, colleges, and universities. Some may work for private athletic clubs or organizations. They may be instructors teaching physical education or related subjects as well as trainers. There may be a greater need for athletic trainers in a larger community, or a college town, than in a rural district. Cities with professional sports franchises may employ athletic trainers.

The field is growing due to increasing emphasis on the health of athletes involved in contact sports, but employment in the field is stable, with little turnover. The outlook for the profession in Texas may be considered balanced.

Beginning athletic trainers employed by a school district in Texas are usually paid about the same as beginning teachers. Salaries in colleges vary greatly.

**For more information on a career as an athletic trainer, CONTACT --**  
Southwest Texas Athletic Trainers Association  
c/o James Dodson, Executive Secretary  
Midland High School  
902 W. Illinois  
Midland, Texas 79701

## At a Glance . . .

postsecondary schooling?	YES, 4 years
minimum age requirement?	NO
examination required?	YES
employment outlook?	BALANCED

## Job Description

Attorneys may be thought of as the link between the legal system and society. They interpret the laws pertaining to each individual's particular circumstance. Attorneys must be well-versed in current knowledge of law. They must be able to speak and write clearly and concisely of their views on cases. They also may write legal briefs and reports as a part of their duties. There are many specializations ranging from legal aid counselors to judgeships within the legal profession. The practice of law may be a stepping stone to a career in politics.

## Job Requirements

- \* ability to communicate effectively
- \* attention to detail
- \* ability to think logically

## License Requirements (VACS 304)

- \* U.S. citizen
- \* Texas resident
- \* at least 18 years of age
- \* good moral character
- \* filing of Declaration of Intention to Study Law during first year of law school
- \* specialized education and/or training

### Examination

- \* written
- \* must file application to take Bar Examination

### Restrictions on Licensing

- \* charged with any violation except Class C misdemeanor, minor traffic offense, and those dismissed, acquitted, or pardoned
- \* conviction of a felony
- \* license fraudulently obtained
- \* failure to comply with rules of the Board

### Fees Not to Exceed

- \* \$75.00 for examination
- \* \$75.00 for filing of Declaration of Intention to Study Law

For more information on licensing requirements, CONTACT --

Board of Law Examiners  
Post Office Box 12248  
Austin, Texas 78711  
512/475-4235



## Education/Training

- \* 90 semester hours of pre-law training with at least a C average
- \* graduation from an accredited law school

**For a listing of schools, CONTACT --**  
Board of Law Examiners

## Working Conditions

- \* long hours
- \* may work under pressure
- \* must continually update knowledge

## Career Opportunities/Employment Outlook

Beginning attorneys may work as assistant law clerks to experienced lawyers. After a few years of experience, attorneys may wish to specialize and enter private practice. Some may enter government service and possibly work into a career in politics. Attorneys with a number of years of experience may become judges. The best locations for beginning attorneys wanting to start private practice are small towns and suburban areas. Attorneys working in large corporations or government service usually locate in urban areas.

In 1978, the average annual employment for attorneys in Texas was 10,000. In 1985, this figure is projected to be 13,200. Enrollment in law schools has increased in the past ten years, which is expected to have an impact on job opportunities.

Depending on firm size and location, beginning salaries in Texas range from \$12,000 to \$30,000 per year.

**For more information on a career in law, CONTACT --**  
State Bar of Texas  
Post Office Box 12487  
Austin, Texas 78711  
512/475-1234

## At a Glance . . .

postsecondary schooling?	YES, 5-6 years
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	BALANCED

## Job Description

Auctioneers are responsible for appraising and selling merchandise to the highest bidder. They itemize merchandise according to type and value, describe it to potential buyers, and determine a starting bid. By giving information and history about the article to be sold, auctioneers stimulate the audience to bid. They also may be responsible for writing an auction catalog or advertising copy.

## Job Requirements

- \* good communication skills
- \* public speaking ability
- \* ability to work independently
- \* knowledge of business practices

## License Requirements (VACS 8700) (22 TAC 535.18)

### Auctioneer:

- \* United States citizen or legal alien
- \* at least 18 years of age
- \* specialized training

### Associate Auctioneer:

- \* United States citizen or legal alien
- \* employed by licensed auctioneer

### Examination

- \* written or oral on knowledge of auction business and related laws
- \* study materials furnished

### Restrictions on Licensing

- \* misrepresentation in license application
- \* violation of the Business and Commerce Code

### Fees Not to Exceed

- \* \$ 25.00 for examination
- \* \$100.00 for license (\$50.00 for associate auctioneer)
- \* \$100.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas Department of Labor and Standards  
Post Office Box 12157  
Austin, Texas 78711  
512/475-4229

## Education/Training

- \* knowledge of the auction business and laws pertaining to it; OR
- \* apprenticeship with a licensed auctioneer for one year and a participant in at least five auctions

## Working Conditions

- \* may work odd hours
- \* may involve some travel

## Career Opportunities/Employment Outlook

Auctioneers may sell different commodities, such as tobacco, grain, art, furniture, and livestock. They may also auction real estate if they hold both a real estate sales license and an auctioneer's license. Auctioneers usually work independently rather than in partnerships, and may choose auctioneering as a part-time or full-time occupation. Depending on the commodity to be auctioned, work is available in almost every type of community.

The outlook for auctioneers is excellent, with full-time professionals earning beginning salaries of \$15,000, based on fees and commissions.

**For more information on a career in auctioneering, CONTACT --**

Texas Auctioneers Association  
c/o Ken Espenson  
614 N. 10th St.  
McAllen, Texas 78501  
512/687-5117

## At a Glance . . .

postsecondary schooling?	NO
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	EXCELLENT

## Job Description

Barbers cut, style, or color hair to each customer's preference. Other services performed by barbers include shaves, scalp treatments, and facials. They are skilled in the use of equipment such as scissors, razors, and clippers. Barbers must be conscious of the condition of their surroundings and tools, keeping them sterile at all times so that disease does not spread.

## Job Requirements

- \* understanding and patience when dealing with customers
- \* finger dexterity
- \* eye to hand coordination
- \* good physical stamina

## License Requirements (VACS 8407a) (22 TAC 51.51)

- \* at least 16½ years of age
- \* specialized education and/or training
- \* health certificate

### Examination

- \* written
- \* practical demonstration

### Restrictions on Licensing

- \* gross malpractice
- \* practice by a person knowingly having a contagious disease
- \* fraudulent or deceptive advertising
- \* addiction to drugs or alcohol
- \* conviction of crime determined by Board to be related to barbering

### Fees Not to Exceed

- \* \$10.00 for examination
- \* \$25.00 for license in first year of biennium; \$12.50 for license in second year of biennium
- \* \$35.00 for biennial license renewal

### For more information on licensing requirements, CONTACT --

State Board of Barber Examiners  
1300 East Anderson Lane, C-275  
Austin, Texas 78752  
512/835-2040

## Education/Training

- \* 1,500 hours in not less than nine months at a barbering school
- \* practical experience as a part of that training

For a listing of schools, SEE --

Directory of Schools Certified Under Texas Proprietary School Act

## Working Conditions

- \* sanitary
- \* may work long hours
- \* constant standing

## Career Opportunities/Employment Outlook

Beginning barbers may start in established businesses to gain experience and customers. As reputation and clientele are established, barbers may open independent shops. Barbers may specialize in areas such as manicuring, wig styling, or massage. Some prefer to obtain a teacher's certificate and instruct at a barbering school. Although barber shops are found in almost every town, the greatest demand is in the more populous areas of the country.

The trend toward hair styling as opposed to personal grooming services has changed the direction of barbering. In 1978, annual employment of barbers in Texas was 2,400. The projected employment figure for 1985 is 3,200. The outlook for barbers is balanced, with supply and demand about equal. Some improvement in employment outlook is expected by 1988.

Unless self-employed, barbers usually are paid on commission. The commission varies and is based on the total income the barber generates for the shop. For 1982 graduates, beginning salaries averaged \$12,000 to \$14,000.

For more information on a career in barbering, CONTACT --

United Food and Commercial Workers, Local 455  
1445 North Loop West, Suite 710  
Houston, Texas 77008  
800/392-2280

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	YES, over 16 1/2
examination required?	YES
employment outlook?	BALANCED

# CHILD CARE ADMINISTRATOR

D.O.T. 195.117

## Job Description

A child care administrator supervises and runs a 24-hour facility in which children live. The administrator is responsible for the home's program and personnel, seeing that the children are offered appropriate activities for their development, education and/or therapy, and supervising staff. The administrator may have an ownership interest in the facility, and may share duties with other persons.

## Job Requirements

- \* interest in welfare of children
- \* patience
- \* flexibility
- \* creativity
- \* knowledge of business practices

## License Requirements

(Human Resources Code 43.001) (40 TAC 85.5001)

- \* good moral character and ethical commitment
- \* sound physical and emotional health
- \* specialized education and training

### Examination

- \* demonstrated competency in the field of child care administration
- \* Texas law
- \* management principles

### Restrictions on Licensing

- \* conviction of any felony, or misdemeanor involving fraud or deceit
- \* addiction to drugs or intemperate use of alcohol
- \* gross negligence

### Fees Not to Exceed

- \* \$25.00 for examination
- \* \$25.00 for license
- \* \$25.00 for biennial renewal

For more information on licensing requirements, CONTACT --

Texas Department of Human Resources  
Post Office Box 2960  
Austin, Texas 78769  
512/441-3355

## Education/Training

- \* 1 year experience in management or supervision of child care personnel and programs
- \* master's or doctoral degree in social work or related area of study; OR
- \* bachelor's degree and two years experience in child care or closely related field; OR
- \* associate degree from junior college and 4 years experience; OR
- \* high school diploma or equivalent and 6 years experience
- \* for renewal, 15 clock hours formal study in child care, social work, or related fields

For a listing of schools, SEE --

Directory of Schools Certificated Under Texas Proprietary School Act

or CONTACT --

Texas Department of Human Resources

## Working Conditions

- \* housing and maintenance sometimes provided
- \* may have office off campus
- \* flexible hours
- \* travel

## Career Opportunities/Employment Outlook

Opportunities are good for child care administrators who are willing to serve an "apprenticeship" in the field. There is low turnover and high longevity among child care executives, and the outlook for the field may be considered balanced. Entry-level salaries range from about \$22,500 to about \$24,000.

For more information on a career in child care, CONTACT --

National Fellowship of Child Care Executives, Texas Chapter  
c/o Dave Gottshall  
West Texas Boys Ranch  
Post Office Box 3568  
San Angelo, Texas 76902  
915/949-1936

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	NO
examination required?	YES
employment outlook?	BALANCED

## Job Description

Chiropractic medicine is concerned with the proper function of the nervous system as it relates to the body as a whole. A doctor of chiropractic medicine determines the alignment of the vertebrae of the human spine, and adjusts the vertebrae to correct any misalignment. Other treatments used may include heat, light, diet, water, exercise, and rest; but chiropractors are not permitted to prescribe drugs or use surgery to treat their patients. Chiropractors may take diagnostic X-rays as a part of their treatment methods, but Texas law prohibits the use of X-ray or radium therapy.

## Job Requirements

- \* keen sense of observation
- \* manual dexterity
- \* ability to work independently

## License Requirements (VACS 4512b) (22 TAC 71)

- \* United States citizenship
- \* over 18 years of age
- \* good moral character
- \* specialized education and training

### Examination

- \* written
- \* practical
- \* license granted with only practical examination if certificate from National Board of Chiropractic Examiners held

### Restrictions on Licensing

- \* conviction of a felony, any crime involving moral turpitude, or the procuring of an abortion
- \* grossly unprofessional conduct
- \* deception or fraud in practice or advertising

### Fees Not to Exceed

- \* \$120.00 for written and practical examination
- \* \$100.00 for certificate from NBCE and practical examination
- \* \$120.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas Board of Chiropractic Examiners  
1300 East Anderson Lane, C-245  
Austin, Texas 78752  
512/835-2006



## Education/Training

- \* 60 semester hours of acceptable health science undergraduate college courses other than those in chiropractic school
- \* graduation from a bona fide reputable chiropractic school
- \* classroom and practical studies required as part of training
- \* for renewal, at least 2 days a year of continuing education approved by the Board

For a listing of schools, CONTACT --  
Texas Board of Chiropractic Examiners

## Working Conditions

- \* regular working hours
- \* may have private or group practice
- \* sanitary

## Career Opportunities/Employment Outlook

There are two areas of specialization within the field of chiropractic medicine. A Chiropractic Roentgenologist specializes in taking, processing, and interpreting diagnostic X-ray films, and a Chiropractic Orthopedist specializes in prevention of skeletal deformities. The majority of chiropractors are self-employed, and establish private practices. They may purchase an established practice or start out on their own. Some chiropractors return to the schools and teach or conduct research in their fields. Another option is to combine with other chiropractic doctors and form a clinic. Studies show that most chiropractors locate in small towns with populations of fewer than 50,000.

In 1978, the average annual employment of chiropractors in Texas was 150. By 1985, this figure is expected to increase to 500. As the practice of chiropractic medicine gains wider acceptance by the public and insurance carriers, the employment outlook will continue to be very good. Salary data for beginning chiropractors is not available.

For more information on a career in chiropractic medicine, CONTACT --  
Texas Chiropractic Association  
815 Brazos, Suite 303  
Austin, Texas 78701  
512/476-1229

## At a Glance . . .

postsecondary schooling?	YES, 6 years
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	VERY GOOD

# COSMETOLOGIST

D.O.T. 332.271

## Job Description

Cosmetologists provide personalized services designed to help people look attractive. This includes hairstyling, facials, manicures, and wig styling. They must be skilled in the use of various tools such as scissors, razors, hair dryers, and curling irons. Cosmetologists are familiar also with chemical preparations used in hair coloring, waving, and straightening. A cosmetologist should be able to advise patrons on the best hair style and treatment for them.

## Job Requirements

- \* finger dexterity
- \* sense of form and design
- \* physical stamina
- \* ability to deal with customers in a pleasant manner

## License Requirements (VACS 8451a) (22 TAC 89)

The operator license authorizes its holder to practice all phases of cosmetology, including any specialty. An additional license is required for instruction. Specialized, more limited certificates are available in such specialties as manicuring, shampoo, and facials.

- \* at least 16 years of age
- \* specialized education and/or training
- \* health certificate required

### Examination

- \* practical demonstration
- \* theory tests

### Restrictions on Licensing

- \* false or misleading advertising
- \* license fraudulently obtained
- \* gross malpractice

### Fees Not to Exceed

- \* \$10.00 for examination/student permit
- \* \$15.00 for license
- \* \$15.00 for biennial renewal

For more information on licensing requirements, CONTACT --

Texas Cosmetology Commission  
1111 Rio Grande  
Austin, Texas 78701  
512/475-3304

## Education/Training

- \* completion of 7th grade or equivalent
- \* 1500 hours of instruction in a licensed beauty culture school; OR
- \* 1000 hours of instruction in beauty culture courses and 500 hours of related high school vocational courses

**For a listing of schools, SEE --**

Directory of Schools Certificated Under Texas Proprietary School Act

## Working Conditions

- \* may work long hours as well as weekends and evenings
- \* constant standing

## Career Opportunities/Employment Outlook

Recent graduates of cosmetology school usually gain experience and customers by working for an established salon. As they build a clientele, many become independent salon owners or managers. Cosmetologists often specialize in manicuring, facials, or wig styling. Some return for advanced training and become instructors in beauty schools. Cosmetologists are found in all areas of the country, with a greater concentration in the larger cities.

The number of cosmetologists employed in 1978 was 13,200; the projected employment figure for 1985 is 17,700. The outlook for cosmetologists is balanced, with some improvement forecast by 1988.

Salaries are generally paid as commissions, but a cosmetologist may rent chair space in a salon and provide service on a semi-independent basis. Salaries for beginning cosmetologists average \$12,000 to \$14,000.

**For more information on a career in cosmetology, CONTACT --**

Texas Hairdressers and Cosmetologists Association, Inc.

Post Office Box 9802-235

Austin, Texas 78766

512/834-2278

## At a Glance . . .

postsecondary schooling?	YES, after 7th grade
minimum age requirement?	YES, over 16
examination required?	YES
employment outlook?	BALANCED

## Job Description

Counselors assist individuals or groups in understanding personal problems, defining goals, and planning actions reflecting their interests, abilities, aptitudes and needs as they relate to personal-social concerns, educational progress and careers. They administer and interpret tests to assess aptitudes, attitudes, interests and personal characteristics, and provide assistance in solving current or potential problems of individuals or groups. They may refer clients to other professionals. Counselors may also be involved in research, or in elementary and secondary schools.

## Job Requirements

- \* respect and concern for individual
- \* communication skills
- \* emotional stability

## License Requirements (VACS 4512g) (22 TAC 681)

- \* 18 years of age
- \* specialized education and training

### Examination

- \* field examination involving questionnaires to instructors, supervisors and references, to judge professional competence; may include submission of written case studies and other documentation;  
OR
- \* written examination; OR
- \* any other examination prescribed by Board

### Restrictions on Licensing

- \* violation of ethics or law regarding counselors
- \* commitment to mental institution

### Fees Not to Exceed

- \* \$ 25.00 for application
- \* \$ 25.00 for examination
- \* \$ 50.00 for license
- \* \$ 75.00 for specialty designation; \$55.00 for specialty exam
- \* \$ 45.00 for annual renewal (without specialty)
- \* \$ 65.00 for annual renewal (with specialty)

### For more information on licensing requirements, CONTACT --

Texas State Board of Examiners of Professional Counselors  
1100 West 49th Street  
Austin, Texas 78756  
512/458-7511

## Education/Training

- \* completion of planned graduate program of 45 semester hours or equivalent, including 300 clock hours of supervised practicum approved by Board; AND
- \* 24 months or 2,000 hours supervised experience

For a listing of schools, CONTACT --

Texas State Board of Examiners of Professional Counselors

## Working Conditions

- \* much public contact
- \* hours may be irregular
- \* work space may be limited, but privacy usually assured
- \* may work outside of office at home or job sites of clients

## Career Opportunities/Employment Outlook

Some of the primary areas in which counselors work are with college students in campus counseling centers; in career planning and placement; in rehabilitation; or in elementary and secondary schools. Most counselors work in the public sector, which is not expected to grow significantly in the 1980's. Keen competition is likely. Most opportunities will result from the need to replace counselors who leave the field. Job opportunities may be best in the small, but growing, private sector.

The outlook for professional counselors is balanced, with supply and demand about equal. Beginning salaries average \$11,000 to \$21,000.

For more information on a career in counseling, CONTACT --

Texas Personnel and Guidance Association

316 West 12th Street, Suite 402

Austin, Texas 78701

512/472-3403

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	YES, 18
examination required?	YES
employment outlook?	BALANCED

## Job Description

Court reporters record verbatim testimony in legal proceedings. They may use written shorthand, a shorthand machine, or oral dictation to record word-for-word statements in court. They then transcribe their notes in typing to create the official court record of a trial or other proceeding. Shorthand reporters often are employed by a court, but also may work for attorneys or may freelance, recording proceedings of meetings, conventions and other private activities.

## Job Requirements

- \* professional appearance
- \* commitment to service
- \* ability to deal with all kinds of people
- \* organizational ability
- \* readiness to adapt to rapidly changing technology

## License Requirements (VACS 2324b)

- \* specialized education and training
- \* certification in either written shorthand, machine shorthand, oral stenography, or any other method authorized by Supreme Court of Texas

### Examination

- \* separate examination for each shorthand method, including
- \* dictation/transcribing
- \* grammar, punctuation, and law

### Restrictions on Licensing

- \* criminal offense involving moral turpitude or fraud
- \* dishonesty
- \* negligence or failure of duty
- \* incompetence
- \* certification fraudulently obtained

### Fees Not to Exceed

- \* \$65.00 for application
- \* \$50.00 for examination

For more information on licensing requirements, CONTACT --

Court Reporters Certification Board  
Office of Court Administration  
Post Office Box 12066  
Austin, Texas 78711  
512/475-3404

## Education/Training

- \* experience, education or training sufficient to allow applicant to fulfill the responsibilities of a court reporter

For a listing of schools, SEE --

Directory of Schools Certificated Under Texas Proprietary School Act

## Working Conditions

- \* office-like conditions and/or courtroom
- \* hours may be flexible
- \* may work under pressure

## Career Opportunities/Employment Outlook

The demand for competent shorthand reporters is expected to rise as the state and federal court systems expand to handle the increasing number of criminal and civil cases. Employment outlook is very good. Beginning salaries start at about \$15,000 and average \$24,500.

For more information on a career in court reporting, CONTACT --

Texas Shorthand Reporters Association  
4302 Airport Boulevard  
Austin, Texas 78722  
512/454-8626

## At a Glance . . .

postsecondary schooling?	NO
minimum age requirement?	NO
examination required?	YES
employment outlook?	VERY GOOD

# DENTAL HYGIENIST

D.O.T. 078.36

## Job Description

Dental hygienists are a part of the dental health team. They work under the supervision of a licensed dentist and may perform duties such as taking X-rays, administering anesthetic agents, removing sutures, and cleaning deposits from teeth. Dental hygienists also instruct patients on proper oral health care and preventive dentistry. At times, the hygienist may be called upon to schedule appointments and to act as office manager.

## Job Requirements

- \* manual dexterity
- \* ability to work with others
- \* personal neatness and cleanliness

## License Requirements (VACS 4551e) (22 TAC 103)

- \* at least 18 years of age
- \* graduation from an accredited high school or equivalent
- \* specialized education

### Examination

- \* written, oral, or practical demonstration, or combination
- \* Texas law relating to dental hygiene

### Restrictions on Licensing

- \* qualifications fraudulently obtained
- \* conviction of a felony involving moral turpitude
- \* dishonest or illegal practice of dental hygiene
- \* habitual addiction to drugs, including alcohol
- \* malpractice or gross incompetence

### Fees Not to Exceed

- \* \$75.00 for examination
- \* \$50.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas State Board of Dental Examiners  
411 West 13th Street, Suite 503  
Austin, Texas 78701  
512/475-2443



## Education/Training

- \* graduation from an accredited school or college of dentistry or dental hygiene with not less than 2 terms of 8 months each of instruction
- \* proof of training in cardiopulmonary resuscitation (CPR), or proof that person is not physically able to complete CPR training

For a listing of schools, SEE --

Directory of Schools Certificated Under Texas Proprietary School Act

or CONTACT --

Texas State Board of Dental Examiners

## Working Conditions

- \* close contact with clients
- \* may have flexible hours

## Career Opportunities/Employment Outlook

Dental hygienists are most often employed in private dental offices. Many work part-time at one or more offices, similar to freelancing. In order to teach children preventive dentistry, school systems have become a major employer of hygienists. Hygienists with bachelor's or master's degrees often become researchers, teachers, administrators, or directors of dental health programs. Other possible employers are the Armed Forces, hospitals, dental clinics, or factories. Positions are usually more abundant in urban areas with a large concentration of dentists.

The average annual employment for dental hygienists in Texas was 2,300 in 1978. That figure is projected to rise to 3,200 by 1985. This is due to the increased awareness of preventive dentistry and the implementation of dental care programs in schools and factories.

The outlook for dental hygienists in Texas is balanced to very good. Beginning salaries in Texas average \$14,000 to \$15,000.

For more information on a career in dental hygiene, CONTACT --

Texas Dental Hygienists Society  
c/o Karla Bullard  
5512 Flamingo  
Rowlett, Texas 75088  
214/475-2193

## At a Glance . . .

postsecondary schooling?	YES, 2-4 years
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	BALANCED

# DENTIST

D.O.T. 072.101

## Job Description

Dentists diagnose and treat diseases of the teeth and gums by various methods, including extraction, replacement, and oral surgery. They may design artificial teeth, straighten existing teeth, and treat gum diseases. Dentists must be highly skilled in the use of instruments such as drills, probes, and X-ray equipment. The majority of dentists are general practitioners, providing many types of dental care. Orthodontists, periodontists, and endodontists are specializations within the field.

## Job Requirements

- \* manual dexterity
- \* diagnostic ability
- \* understanding and sympathy in dealing with patients
- \* good vision

## License Requirements (VACS 4543) (22 TAC 101)

- \* at least 21 years of age
- \* good moral character
- \* specialized education

### Examination

- \* proof of training in cardiopulmonary resuscitation (CPR)
- \* proof of graduation from dental school

### Restrictions on Licensing

- \* qualifications fraudulently obtained
- \* habitual addiction to drugs, including alcohol
- \* dishonest or illegal practice of dentistry
- \* conviction of a felony involving moral turpitude
- \* malpractice or gross incompetency

### Fees Not to Exceed

- \$150.00 for examination
- \$ 75.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas State Board of Dental Examiners  
411 West 13th Street, Suite 503  
Austin, Texas 78701  
512/475-2443

## Education/Training

- \* 4 terms of 8 months each at a reputable dental college
- \* 2 terms of dental college must be practical experience

**For a listing of schools, CONTACT --**  
Texas Board of Dental Examiners

## Working Conditions

- \* close contact with client
- \* regular hours

## Career Opportunities/Employment Outlook

The majority of dentists enter private practice either by purchasing an established practice or opening a new office. Some dentists begin by working in a clinic or with a group practice. There are also opportunities in hospitals and dental laboratories. Some dentists pursue teaching careers in dental colleges. The government employs dentists, specifically in the Armed Forces and Public Health Service. Dentists are in great demand in urban areas; however, small communities present quicker development of clientele.

In 1978, the average number of dentists employed was 2,500; in 1985, it is expected to be 3,500. The employment outlook for dentists in Texas is balanced, with some decline forecast by 1988. According to a 1982 study by the Texas Dental Association, "there is and will be an oversupply of dentists in Texas."

Salaries for beginning dentists in Texas range from \$29,000 to \$46,000 depending on type and location of practice.

**For more information on a career in dentistry, CONTACT --**  
Texas Dental Association  
1946 South IH35  
Austin, Texas 78704  
512/443-3675

## At a Glance . . .

postsecondary schooling?	YES, 6-8 years
minimum age requirement?	YES, over 21
examination required?	YES
employment outlook?	BALANCED

# DIETITIAN

D.O.T. 077.117

## Job Description

Dietitians apply scientific principles of nutrition to different health, social, cultural, physical, psychological and economic conditions to help provide proper nourishment, care and education of individuals or groups. They may develop, manage and provide nutrition services. Dietitians may be in charge of large-scale meal planning and preparation, as in schools or prisons; work with doctors and other medical personnel to plan individual patients' diets and instruct them in their requirements; counsel individuals or groups on sound nutrition practices; teach or conduct research.

## Job Requirements

- \* scientific aptitude
- \* business and organizational skills
- \* ability to work with a variety of people

## License Requirements (Senate Bill 671, 68th Legislature)

- \* specialized education and training

### Examination

- \* may be, or may include, examination given by the Commission on Dietetic Registration, or by state or national testing service

### Restrictions on Licensing

- \* violation of licensing act
- \* violation of code of ethics

### Fees Not to Exceed

- \* fees had not been set at press time

### For more information on licensing requirements, CONTACT --

Texas State Board of Examiners of Dietitians  
Texas Department of Health  
Hospital and Professional Licensure Division  
1100 West 49th Street  
Austin, Texas 78756  
512/458-7531

## Education/Training

- \* bachelor's or graduate degree with major in human nutrition or equivalent
- \* internship or preplanned professional experience approved by Board

For a listing of schools, CONTACT --

Directory of Schools Certificated Under Texas Proprietary School Act

or CONTACT --

Texas State Board of Examiners of Dietitians

## Working Conditions

- \* clean surroundings
- \* may be in hot, steamy kitchens
- \* some part-time work available

## Career Opportunities/Employment Outlook

Many dietitians work in hospitals, nursing homes and clinics. Colleges, school systems, child care facilities and restaurants also employ dietitians, and some work as consultants. Experienced dietitians may advance to assistant director or director of a dietetic department. Other avenues of advancement are teaching and research.

There were 2,200 dietitians employed in Texas in 1978. By 1985, there are expected to be 3,100. Outlook, as for many health professions, is very good. Beginning salaries averaged \$15,000 to \$16,000 for 1982 graduates with bachelor's degrees, and \$16,000 to \$21,000 for those with graduate degrees.

For more information on a career in dietetics, CONTACT --

Texas Dietetic Association  
Post Office Box 15661  
Austin, Texas 78761  
512/835-2778

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	NO
examination required?	YES
employment outlook?	VERY GOOD

# ENGINEER, PROFESSIONAL

NO D.O.T.

## Job Description

Professional engineers apply scientific and mathematical principles to practical, technical problems. They may be involved in many aspects of engineering, such as research and development, production, design, construction, or administration. Specializations, such as chemical, electrical, petroleum, and civil, exist within the field of engineering. Many engineers work as consultants, drawing on their experience to guide others in developing engineering programs.

## Job Requirements

- \* analytical mind
- \* creativity
- \* attention to detail

## License Requirements (VACS 3271a) (22 TAC 131)

- \* good moral character
- \* specialized education and/or training

### Examination

- \* written and/or oral
- \* personal references required

### Restrictions on Licensing

- \* fraud or deceit in obtaining registration
- \* gross negligence, incompetence, or misconduct in practice
- \* violation of any provision of engineering law or regulations

### Fees Not to Exceed

- \* \$50.00 for application/license
- \* \$45.00 for annual renewal

For more information on licensing requirements, CONTACT --  
State Board of Registration for Professional Engineers  
Post Office Drawer 18329  
Austin, Texas 78760  
512/475-3141

## Education/Training

- \* graduation from an approved course in engineering in 4 years or more plus 4 years or more of active, increasingly responsible practice in engineering; OR
- \* successfully passing an examination in lieu of the engineering courses, plus 8 years of active practice in engineering
- \* advanced degrees may be considered experience

For a listing of schools, CONTACT --  
Texas State Board of Registration for Professional Engineers

## Working Conditions

- \* may work odd hours
- \* may be required to travel

## Career Opportunities/Employment Outlook

Engineers are employed by industries, government agencies or units, construction services, and educational institutions; but more than half of them are employed by manufacturing industries. Beginning engineers are usually under the supervision of experienced engineers until they become familiar with the practices of the employer. After experience has been gained, some engineers move to administrative positions or return to college for graduate degrees in management or law. Generally, the best opportunities are found in urban areas.

Engineering is one of the fastest growing occupations, largely due to the increase in technology in all phases of the culture. The demand for engineering graduates in Texas is greater than in any other academic area, and salaries are comparatively high. The employment outlook for engineers in Texas is balanced to very good. The average employment for 1978 was 65,500; the projected employment for 1985 is 96,300.

Depending on the area of specialization, salaries for beginning engineers in Texas average from \$22,000 to \$25,000.

For more information on a career in engineering, CONTACT --  
Texas Society of Professional Engineers  
Post Office Box 2145  
Austin, Texas 78768  
512/472-9286

## At a Glance . . .

postsecondary schooling?	YES, 4 years
minimum age requirement?	NO
examination required?	YES
employment outlook?	BALANCED TO VERY GOOD

# HEARING AID DISPENSER

D.O.T. 276.354

## Job Description

Hearing aid dispensers sell and fit hearing aids to customers in a retail environment. They must be able to adapt the hearing aid to the special needs of the client. This involves the recording and evaluating of audiograms and the taking of earmold impressions for a proper fit.

## Job Requirements

- \* ability to do precision work
- \* understanding of business practices
- \* ability to work independently

## License Requirements (VACS 4566) (22 TAC 141)

- \* at least 18 years of age
- \* specialized training

A temporary training permit may be granted to any person who has not yet taken the exam, or previously held a temporary permit. This person must be employed and sponsored by a licensed hearing aid dispenser. Training permits are valid for 6 months, with one extension of an additional 6 months if necessary.

### Examination

- \* fitting of hearing aids
- \* taking of earmold impressions
- \* basic physics of sound

### Restrictions on Licensing

- \* conviction of a felony, or a misdemeanor involving moral turpitude
- \* fraud, deceit, or misrepresentation in practice or advertising
- \* refusal to accept responsibility for a trainee's acts while on job
- \* inability to perform work safely due to age, illness, drunkenness, drug use or other condition

### Fees Not to Exceed

- \* \$125.00 for examination
- \* \$ 75.00 for license
- \* \$ 40.00 for temporary training permit
- \* \$195.00 for annual renewal

For more information on licensing requirements, CONTACT --

Texas Board of Examiners in the Fitting and Dispensing of  
Hearing Aids  
1212 Guadalupe, Suite 105  
Austin, Texas 78701  
512/475-3429



## Education/Training

- \* graduation from an accredited high school or equivalent
- \* 150 hours of practicum with training in specified areas, either as part of work toward audiology degree, or in training under licensed hearing aid dispenser

## Working Conditions

- \* indoors
- \* office-like
- \* sanitary
- \* well-lit
- \* soundproofed

## Career Opportunities/Employment Outlook

A person starting out as a hearing aid dispenser generally goes to work for an experienced practitioner, or forms a partnership with another dispenser. Some start their own businesses or purchase established practices.

Due to the refinement of hearing aid apparatus, more people are seeking help for hearing deficiencies, and this is creating employment for hearing aid dispensers. But a trend toward hiring audiologists with master's degrees will limit future opportunities for newcomers to the field and increase competition among those without audiology degrees.

Beginning hearing aid dispensers in Texas earn an average of \$15,000.

**For more information on a career in hearing aid dispensing, CONTACT --**  
Texas Hearing Aid Association  
4302 Airport Boulevard  
Austin, Texas 78722  
512/454-8626

## At a Glance . . .

postsecondary schooling?	NO
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	COMPETITIVE

## Job Description

Insurance, or claim, adjusters act as the intermediary between the insurance carrier and the insured. They investigate claims, determine whether the insured is covered, and verify the amount of loss. Adjusters use physical evidence, testimony of witnesses, and detailed reports in their investigations. They may specialize by type of claim, such as fire, automobile, or product liability.

## Job Requirements

- \* ability to communicate
- \* good memory
- \* mathematical ability

## License Requirements (Insurance Code 21.07-4)

- \* Texas resident
- \* at least 18 years of age
- \* trustworthy
- \* specialized training

### Examination

- \* written state examination; OR
- \* successful examination at completion of approved study
- \* list of suggested study materials furnished

### Restrictions on Licensing

- \* license fraudulently obtained
- \* conviction of a felony
- \* misrepresentation of insurance contract
- \* misappropriation of money

### Fees Not to Exceed

- \* \$25.00 for application
- \* \$25.00 for examination
- \* \$25.00 for annual renewal

For more information on licensing requirements, CONTACT --

State Board of Insurance  
1110 San Jacinto  
Austin, Texas 78786  
512/475-3397

## Education/Training

- \* experience, education or training sufficient to allow applicant to fulfill the responsibilities of an adjuster

**For a listing of schools, SEE --**

Directory of Schools Certificated Under Texas Proprietary School Act

## Working Conditions

- \* frequent travel
- \* may work irregular hours

## Career Opportunities/Employment Outlook

Beginning adjusters work under the supervision of experienced adjusters, handling small losses. With experience and more difficult assignments, adjusters may be promoted within the company to department supervisors or managers. Often they work as public adjusters, representing the insured instead of the company, or with large organizations, negotiating claims against insurance companies. Insurance adjusters most often work in large cities where home insurance offices are located.

Opportunities for adjusters are expected to grow faster than the national average with the increase in insurance claims. The employment outlook for adjusters in Texas is balanced, with supply and demand about even. Nationally, adjusters earn an average of about \$15,000 per year, while senior adjusters may make about \$22,000. Adjusters may also earn a percentage of the insurance settlement.

**For more information on a career as an insurance adjuster, CONTACT --**

ICAT/ Professional Insurance Agents of Texas  
Post Office Box 3175  
Austin, Texas 78764  
512/474-6066

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	BALANCED

## Job Description

Insurance agents sell policies to individuals and businesses to help protect them from financial losses. They analyze the particular needs of the client and formulate an insurance program best suited to those needs. There are three basic types of insurance: property and casualty, life, accident and health. Agents are employed by a company, but may represent more than one company.

## Job Requirements

- \* self-confidence
- \* ability to work independently
- \* ability to communicate effectively

## License Requirements (Insurance Code 21.07, 21.07-1, 21.14)

- \* Texas resident
- \* age 18 or older
- \* good moral character and reputation
- \* trustworthy
- \* endorsement by a qualified insurance company
- \* specialized education and/or training

A temporary local recording agent's license for property and casualty insurance may be given if all the requirements are met and the examination passed, providing that the specialized training is done within a one year period after issuance of license. A 90-day temporary license is available for a life, accident and health agent.

### Examination

- \* written
- \* study guide furnished

### Restrictions on Licensing

- \* license obtained fraudulently
- \* misappropriation of insured's money
- \* misrepresentation of insurance policy

### Fees Not to Exceed

- \* \$50.00 for application
- \* \$20.00 for examination
- \* \$50.00 for annual renewal depending on type of license

For more information on licensing requirements, CONTACT --

State Board of Insurance  
1110 San Jacinto  
Austin, Texas 78786  
512/475-4475

## Education/Training

- \* study at an approved classroom insurance course; OR
- \* study with an approved company or agents association school; OR
- \* study with an approved correspondence course; OR
- \* four years of college with a major in insurance

For a listing of schools, SEE --

Directory of Schools Certificated Under Texas Proprietary School Act

## Working Conditions

- \* client visitation
- \* may travel in specified territory

## Career Opportunities/Employment Outlook

Insurance agents may prefer to work with one company or agency in the beginning. As a clientele is built and experience gained, some agents prefer to work independently and represent more than one company. A combination real estate and insurance sales office is another possibility for advancement. Insurance agents may work either full or part-time.

Because the demand for insurance is rising, the number of licensed agents is expected to increase. For 1985, the projected average employment figure in Texas is 27,600, up from 20,700 in 1978. The employment picture is balanced, with some improvement expected by 1988.

Salaries for insurance agents are usually paid as commissions on sales.

For more information on a career in insurance, CONTACT --

ICAT / Professional Insurance Agents of Texas  
Post Office Box 3175  
Austin, Texas 78764  
512/474-6066

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	YES, 18
examination required?	YES
employment outlook?	BALANCED

## Job Description

Land surveyors are responsible for establishing tract-of-land boundary lines. They determine location and measurement of elevations, lines, points, and contours. Land surveyors prepare maps and legal descriptions for documents such as deeds and leases. They are legally responsible for the accuracy of their work.

## Job Requirements

- \* good physical condition
- \* mathematical ability
- \* leadership qualities
- \* ability to visualize abstract forms

## License Requirements (VACS 5282c) (22 TAC 661)

- \* good professional character and reputation
- \* specialized education and/or training

### Examination

- \* must demonstrate ability (written and practical)
- \* must have proof of training/education

### Restrictions on Licensing

- \* fraud or deceit in obtaining a license
- \* gross negligence
- \* interest in purchasing public land, directly or indirectly

### Fees Not to Exceed

- \* \$ 50.00 for application
- \* \$100.00 for examination
- \* \$ 50.00 for annual renewal

For more information on licensing requirements, CONTACT --

Texas Board of Land Surveying  
1106 Clayton Lane, Suite 210 West  
Austin, Texas 78723  
512/452-9427

## Education/Training

- \* bachelor's degree in subjects relating to land surveying, plus two years surveying experience; OR
- \* 32 semester hours or equivalent in subjects relating to land surveying, plus four years surveying experience; OR
- \* graduation from an accredited high school, plus six years surveying experience, and proof of self-education in surveying field

For a listing of schools, CONTACT --  
Texas Board of Land Surveying

## Working Conditions

- \* may work under adverse conditions
- \* may travel frequently

## Career Opportunities/Employment Outlook

Beginning surveyors usually start as instrument workers, advancing to positions of greater responsibility, such as party chief. Many land surveyors are employed by government agencies or work for highway departments. Others are employed by municipalities or local governing units and work on urban planning and development. Land surveyors may travel extensively and be exposed to varied living conditions. For the best opportunities, surveyors should locate in areas of rapid development or renewal.

The total number of surveyors employed in 1978 was 2,700; and the expected employment for 1985 is 3,800. Salaries for beginning land surveyors in Texas range from \$17,000 to \$23,000.

For more information on a career in land surveying, CONTACT --  
Texas Surveyors Association  
4302 Airport Boulevard  
Austin, Texas 78722  
512/454-8626

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	NO
examination required?	YES
employment outlook?	BALANCED

# LANDSCAPE ARCHITECT

D.O.T. 001.061

## Job Description

Landscape architects are concerned with the beautification of land areas which enhance the environment as well as serve the developer's needs. They plan and design projects such as recreational facilities, roadways, schools, and housing subdivisions. Landscape architects study the special features of the site, develop preliminary drawings, and supervise construction of the project. Many landscape architects act as client representatives to the contractor and follow the project through to completion.

## Job Requirements

- \* desire to work outdoors
- \* creative and design ability
- \* understanding of business practices

## License Requirements (VACS 249c) (22 TAC 3)

- \* good moral character
- \* at least 18 years of age
- \* specialized education and/or training

### Examination

- \* professional practice
- \* design
- \* design implementation
- \* history
- \* study suggestions available from Board

### Restrictions on Licensing

- \* practice of landscape architecture without registration
- \* misrepresentation of application data
- \* conviction of a felony involving moral turpitude
- \* gross negligence, incompetency, or misconduct in practice

### Fees Not to Exceed

- \* \$10.00 for application or fee prescribed by Board
- \* \$90.00 for examination
- \* \$35.00 first registration
- \* \$70.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas Board of Architectural Examiners  
8213 Shoal Creek Boulevard, Suite 107  
Austin, Texas 78758  
512/458-1363



## Education/Training

- \* professional degree from a recognized school whose study of landscape architecture is approved; OR
- \* seven years or more of actual experience in the office of a licensed landscape architect

For a listing of schools, CONTACT --  
Texas Board of Architectural Examiners

## Working Conditions

- \* may involve travel
- \* may work irregular hours
- \* work may be done outdoors

## Career Opportunities/Employment Outlook

Beginning landscape architects work as junior drafters in offices. With experience, they progress to senior drafters, eventually assuming responsibility for a project from inception to completion. Many specialize in one area of landscape architecture, such as parklands or urban redevelopment. They may be employed by a firm of architects or own their own businesses. Landscape architects are also employed as teachers by colleges and universities. Government agencies, too, hire large numbers. The best opportunities are found in more populous areas of the country, especially in temperate climates where year-round work is possible.

The outlook for landscape architects in Texas is balanced. Increasing opportunities for landscape architects result from growing awareness of environmental issues by the public. Beginning salaries in Texas average \$16,000 to \$18,000.

For more information on a career in landscape architecture, CONTACT --  
American Society of Landscape Architects, Texas Chapter  
c/o Joe Caddel  
1659 Watson Road  
Fort Worth, Texas 76103  
817/451-2032

## At a Glance . . .

postsecondary schooling?	NO (w/ experience)
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	BALANCED

# LAW ENFORCEMENT OFFICER

D.O.T. 375.167

## Job Description

Law enforcement officers are employed by the state, county, or city, or may serve as guards in county or city jails. Their duties range from traffic control to crime prevention and investigation. In smaller communities, an officer's duties may run the full gamut. In larger areas, an officer is assigned to more specialized duty such as communications, investigations, traffic or technical areas including chemical analysis and fingerprint identification.

## Job Requirements

- \* honesty
- \* good judgment
- \* physical fitness
- \* emotional stability

## License Requirements (VACS 4413[29aa])

- \* U.S. citizen
- \* 18 or older
- \* honorable discharge, if served in military
- \* emotional and psychological health

### Examination

- \* physical
- \* psychological
- \* background examination by employing agency
- \* written examination at conclusion of training

### Restrictions on Licensing

- \* conviction of a felony
- \* conviction of driving while intoxicated or under the influence of drugs in last 10 years
- \* violation of any rule or standard of Commission

### Fees Not to Exceed

- \* none

For more information on licensing requirements, CONTACT --  
Commission on Law Enforcement Standards and Education  
1106 Clayton Lane  
Austin, Texas  
512/459-1171

## Education/Training

- \* high school diploma or equivalent
- \* completion of training operated or approved by Commission, within 12 months of employment
- \* weapons proficiency training and demonstration

**For a listing of schools, CONTACT --**

Directory of Schools Certificated Under Texas Proprietary School Act

**or CONTACT --**

Commission on Law Enforcement Standards and Education

## Working Conditions

- \* weekend and night duty
- \* subject to call at any time
- \* outdoor work
- \* risk of injury

## Career Opportunities/Employment Outlook

Most new recruits begin on patrol duty, alone or with other officers, becoming familiar with the territory and remaining alert for unusual circumstances. Officers prepare written reports of their activities and testify in court when arrests result in legal action. Police officers usually become eligible for promotion after a specified length of service. Promotions may allow specialization in areas such as plainclothes investigation, evidence analysis or juvenile justice. In some cases, police may retire with a pension relatively young and pursue a second career.

In 1978, there were 27,600 police detectives, officers and patrolpersons employed in Texas. By 1985, there will be 33,200, according to forecasts. Outlook is very good, with some improvement predicted by 1988. Beginning salaries average \$14,000 to \$16,000 in Texas.

**For more information on a career in law enforcement, CONTACT --**

Texas Police Association  
Post Office Box 4247  
Austin, Texas 78765  
512/458-3140

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	YES, 18
examination required?	YES
employment outlook?	VERY GOOD

## Job Description

Librarians serve as a link between the public and information sources. They prepare the information and assist patrons in its use. In addition, librarians select materials, publicize services, do research, and conduct programs within the community. County librarians, appointed by County Commissioners Courts for two-year terms, are in charge of a county-wide network of branch libraries and deposit stations. They formulate rules and regulations concerning the administration of the library. They submit an annual statistical report to the State Librarian on the operation and condition of the county library.

## Job Requirements

- \* interest in books and information
- \* ability to work with a variety of people
- \* initiative

## License Requirements (VACS 1683) (22 TAC 151)

- \* specialized education and/or training
- \* training required depends on population of library's service area

### Examination

- \* none

### Restrictions on Licensing

- \* none

### Fees

- \* none

### For more information on licensing requirements, CONTACT --

Texas State Library and Archives Commission  
Post Office Box 12927  
Austin, Texas 78711  
512/475-4119

## Education/Training

Grade III - valid for two years

- \* 30 semester hours at an accredited college or university; OR
- \* high school diploma or equivalent AND one year of experience in a library in the past five years, or a combination of education and experience
- \* for renewal, 3 semester hours at an accredited college or university, or 20 hours of other continuing education activities

## Education/Training cont.

Grade II - valid for two years

- \* graduation from an accredited senior college or university; OR
- \* 60 semester hours at an accredited college or university and two years experience in a library within the past five years, or a combination of education and experience
- \* for renewal, 3 semester hours at an accredited college or university, or 20 hours of other continuing education activities

Grade I - permanent

- \* fifth-year degree in librarianship or master's degree in library or information science from a program accredited by the American Library Association; OR
- \* higher credential from a library school offering an ALA-approved degree in library or information science

**For a listing of schools, CONTACT --**  
Texas State Library and Archives Commission

## Working Conditions

- \* regular hours
- \* may travel within county

## Career Opportunities/Employment Outlook

County librarians may be certified at Grade III and, through education and experience, advance through the remaining levels; or they may enter at a higher grade and advance through experience in library work. Some librarians specialize in certain areas such as technical services, information services or media services. With experience, librarians may advance to an administrative position, such as director of a specific library or system. The opportunities for county librarians in Texas are best in the counties with a large library system, usually found in urban areas.

The outlook for librarians in Texas is balanced. Salaries for beginning librarians range from \$12,000 for those with a bachelor's degree to \$17,000 for advanced level.

**For more information on a career in library science, CONTACT --**  
Texas Library Association  
8989 Westheimer, Suite 108  
Houston, Texas 77063  
713/782-0570

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	NO
examination required?	NO
employment outlook?	BALANCED

# MORTICIAN/EMBALMER

D.O.T. 187.167: 338.371

## Job Description

Morticians, or funeral directors, are responsible for all details necessary for services and burial of the deceased. They arrange for the funeral service, casket choice, transportation of the body, and viewing arrangements. They usually handle the writing of obituaries for the newspapers and may make the cemetery arrangements. They work closely with the family of the deceased, offering guidance in times of stress.

Embalmers preserve the body of the deceased for sanitary and cosmetic reasons by injecting embalming fluids into it. They may repair disfigurements or improve the appearance by using cosmetics, cotton, or clay. Embalmers may also assist pathologists during autopsies.

## Job Requirements

- \* tact and understanding
- \* physical stamina
- \* emotional stability

## License Requirements (VACS 4582b) (22 TAC 203)

- \* Texas resident
- \* at least 18 years of age
- \* graduation from an accredited high school or equivalent
- \* specialized education and training

### Examination

- \* written
- \* practical

### Restrictions on Licensing

- \* conviction of a felony or misdemeanor related to the practice of embalming or funeral directing
- \* deceptive advertising practices
- \* misrepresentation of credentials
- \* drug addiction

### Fees Not to Exceed

- \* \$10.00 for apprenticeship registration
- \* \$50.00 for license
- \* \$40.00 for biennial renewal

For more information on licensing requirements, CONTACT --

State Board of Morticians  
1513 South IH 35  
Austin, Texas 78741  
512/442-6721

## Education/Training

- \* graduation from an accredited school or college of mortuary science
- \* apprenticeship of one year to a licensed funeral director and/or embalmer, after passing examination

For a listing of schools, SEE --

Directory of Schools Certificated Under Texas Proprietary School Act

## Working Conditions

- \* indoor
- \* sanitary
- \* regular working hours

## Career Opportunities/Employment Outlook

After the apprenticeship period, newly licensed directors or embalmers generally are employed as trainees. In the larger funeral homes, they can advance to positions such as general manager or chief embalmer. When experienced enough, some establish their own funeral businesses. Funeral supply companies also employ morticians as sales representatives. Embalmers may be employed by hospitals or morgues. Better opportunities exist in urban areas, as the smaller communities tend to have family operated funeral homes.

There were 700 embalmers employed in Texas in 1978. By 1985, this figure is expected to be 800. The employment outlook for funeral services personnel in Texas is excellent, with definite improvement by 1988. Salaries for funeral directors and related occupations are not available.

For more information on a career in funeral services, CONTACT --

Texas Funeral Directors Association

1513 South IH 35

Austin, Texas 78741

512/442-2304

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	EXCELLENT

### Job Description

Licensed vocational nurses provide nursing care that requires the technical knowledge, but not the professional education, of a registered nurse. Under the supervision of physicians or registered nurses, they may perform tasks including administration of prescribed medicines, recording of blood pressure and temperature readings, and ensuring sanitary conditions for the patient. Many specialize in one aspect of nursing and operate sophisticated equipment to care for seriously ill patients.

### Job Requirements

- \* emotionally stable
- \* attention to detail
- \* concern for human welfare

### License Requirements (VACS 4528c) (22 TAC 235)

- \* good physical and mental health
- \* specialized education and/or training

#### Examination

- \* written

#### Restrictions on Licensing

- \* conviction of a felony, or any crime involving moral turpitude
- \* license fraudulently obtained
- \* intemperate use of alcohol or drugs
- \* unprofessional conduct

#### Fees Not to Exceed

- \* \$40.00 for application and examination
- \* \$10.00 for annual renewal
- \* \$30.00 for reactivating from inactive status

#### For more information on licensing requirements, CONTACT --

Texas State Board of Vocational Nurse Examiners  
1300 East Anderson Lane, C-285  
Austin, Texas 78752  
512/835-2071



## Education/Training

- \* at least 2 years of high school education or equivalent
- \* completion of a course of not less than 12 months in an approved school of vocational nursing; OR
- \* at least two years of training in an accredited school of professional nurse training

**For a listing of schools, SEE --**

Directory of Schools Certificated Under Texas Proprietary School Act

## Working Conditions

- \* may work under stress
- \* may work odd hours
- \* sanitary surroundings

## Career Opportunities/Employment Outlook

Licensed vocational nurses may advance through additional training or formal education. In-service training programs prepare some for work in intensive care units or recovery rooms. Some prefer to specialize by type of patient, such as pediatric or geriatric. LVNs may pursue a professional nursing degree as they continue to work part-time. In addition to hospitals, LVNs are employed by clinics, welfare agencies, nursing homes, and private homes. The greatest opportunity for employment is in more populous areas, although the need exists in all areas of the country.

An increase in positions available in Texas is forecast for 1985. In 1978, 36,200 LVNs were employed; and an employment figure of 49,200 is projected for 1985. The employment outlook is considered very good to excellent, with improvement by 1988.

Beginning salaries in Texas average \$11,000 to \$17,000.

**For more information on a career in vocational nursing, CONTACT --**

Licensed Vocational Nurses Association of Texas  
611 South Congress, Suite 420  
Austin, Texas 78704  
512/443-4813

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	VERY GOOD

# NURSE, REGISTERED

D.O.T. 075.374

## Job Description

Registered nurses carry out the medical treatments prescribed by physicians and also make independent judgments based upon their professional knowledge. Usual duties include administration of medication, preparation of sterile instruments, and observation of a patient's condition. The major employers of RNs are hospitals and similar institutions, doctors, schools, and factories. Some RNs are self-employed, working as private-duty nurses.

## Job Requirements

- \* good health and stamina
- \* desire to serve people
- \* good judgment

## License Requirements (VACS 4518) (22 TAC 217)

- \* specialized education and training

### Examination

- \* evidence of successful completion of education requirements
- \* State Board Test Pool Examination (SBTPE)

### Restrictions on Licensing

- \* license fraudulently obtained
- \* conviction of a felony, or any crime involving moral turpitude
- \* unprofessional conduct
- \* intemperate use of alcohol or drugs

### Fees Not to Exceed

- \* \$75.00 for examination
- \* \$25.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Board of Nurse Examiners for the State of Texas  
1300 East Anderson Lane, C-225  
Austin, Texas 78752  
512/835-4880

## Education/Training

- \* graduation from an accredited program of professional nursing education

For a listing of schools, SEE --

Directory of Schools Certificated Under Texas Proprietary School Act

or CONTACT --

Board of Nurse Examiners for the State of Texas

## Working Conditions

- \* indoor
- \* sanitary
- \* may work irregular hours

## Career Opportunities/Employment Outlook

Registered nurses may begin as staff nurses in hospitals or other health care institutions. With experience, they may advance to head nurse or director of nursing services. They may decide to specialize in an area such as pediatric or psychiatric nursing. With an advanced degree of intensive training, RNs may work as administrators, educators, researchers, or nurse practitioners. Nursing opportunities are greater in the inner city and the southern states than in areas where training programs are located.

The outlook for registered nurses in Texas is excellent. The 1978 employment figure of 38,000 is expected to increase to 50,500 in 1985.

Salaries for beginning RNs range from \$16,000 to \$18,000 for those with a bachelor's degree, and from \$22,000 to \$23,000 for nurses completing graduate training.

For more information on a career in professional nursing, CONTACT --

Texas Nurses Association  
314 Highland Mall Boulevard, Suite 504  
Austin, Texas 78752  
512/452-0645

## At a Glance . . .

postsecondary schooling?	YES, 2-4 years
minimum age requirement?	NO
examination required?	YES
employment outlook?	EXCELLENT

## Job Description

Coordination of the various functions and activities necessary for day-to-day operation is the main duty of nursing home administrators. They oversee the nursing staff, food service operations, and general management of the home. They compile and analyze reports of operational statistics for official records. Nursing home administrators may supervise in-service training in conjunction with the administrator-in-training program.

## Job Requirements

- \* interest in helping the sick or aged
- \* ability to motivate people
- \* understanding of business practices
- \* management abilities

## License Requirements (VACS 4442d) (22 TAC 243)

- \* at least 18 years of age
- \* good moral character
- \* sound physical and mental health
- \* specialized education and/or training

### Examination

- \* State Board examination
- \* Suitability examination (oral or narrative)
- \* National Association Board examination

### Restrictions on Licensing

- \* conviction of a felony, or any crime involving moral turpitude
- \* gross negligence
- \* license fraudulently obtained
- \* intemperate use of alcohol or drugs

### Fees Not to Exceed

- \* \$150.00 for application
- \* \$150.00 for biennial renewal

### For more information on licensing requirements, CONTACT --

Texas Board of Licensure for Nursing Home Administrators  
Post Office Box 9706  
Austin, Texas 78766  
512/926-9530

## Education/Training

- \* graduation from accredited high school or equivalent
- \* completion of a 200-hour, Board-prescribed curriculum in accredited postsecondary institution
- \* internship of 26 weeks in a licensed nursing home
- \* for renewal, 30 hours of continuing education every two years

For a listing of schools, SEE --

Directory of Schools Certificated Under Texas Proprietary School Act

or CONTACT --

Texas Board of Licensure for Nursing Home Administrators

## Working Conditions

- \* may travel
- \* may work extended hours

## Career Opportunities/Employment Outlook

Nursing home administrators ordinarily begin as assistants to chief administrators. Learning opportunities are usually better in smaller nursing homes as the experience is more general. The goal for many is to become the chief nursing home administrator. Although many communities have nursing homes, better opportunities exist in larger cities.

The average salary for nursing home administrators in Texas is \$18,000, but salaries vary widely within a range from about \$10,000 to about \$30,000. Financial opportunities are best for those who have an ownership interest in the facility they administer.

For more information on a career in nursing home administration, CONTACT --

Texas Nursing Home Association  
6225 U.S. Highway 290 East  
Austin, Texas 78723  
512/458-1257

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	BALANCED

## Job Description

An occupational therapist, working as part of a medical team, evaluates and treats individuals whose abilities to perform the tasks of living are impaired by developmental disorders, aging, sensory impairment, physical injury or illness, and psychological or social problems. The therapist selects activities suited to the patient's abilities and designed to develop independence, prepare the patient to return to work, develop or restore basic functions or aid in adjustment to disabilities. He or she may also design and/or make special equipment or recommend changes in a home or work environment.

## Job Requirements

- \* warm, friendly personality
- \* ingenuity and imagination
- \* patience
- \* ability to work with people of all kinds and ages

## License Requirements (Senate Bill 1213, 68th Legislature)

- \* good moral character
- \* specialized education and training

### Examination

- \* sciences
- \* techniques/methods
- \* separate examinations for occupational therapists and assistants

### Restrictions on Licensing

- \* license fraudulently obtained
- \* gross negligence
- \* deceptive advertising
- \* use of drugs or alcohol affecting professional competence

### Fees Not to Exceed

- \* fees had not been set at press time

### For more information on licensing requirements, CONTACT --

Texas Board of Occupational Therapy Examiners  
Texas Rehabilitation Commission  
118 East Riverside Drive  
Austin, Texas 78704  
512/445-8000

## Education/Training

Occupational Therapist:

- \* bachelor's or master's degree in occupational therapy or equivalent, and 6 months supervised field work; OR
- \* practice as occupational therapist assistant for four years and 6 months supervised field work

Occupational Therapist Assistant:

- \* associate degree in occupational therapy or equivalent, and 2 months supervised field work

**For a listing of schools, SEE --**

Directory of Schools Certificated Under Texas Proprietary School Act

## Working Conditions

- \* may involve some irregular hours
- \* adequate light and ventilation
- \* on feet much of the time

## Career Opportunities/Employment Outlook

New graduates of occupational therapy programs generally begin as staff therapists. Advancement is usually to supervisory or administrative positions, teaching or research. Employment opportunities are expected to grow with continued support for rehabilitation programs. Average annual employment of occupational therapists in Texas was 600 in 1978. In 1985, the figure forecast is 800.

The employment outlook is excellent; beginning salaries for 1982 graduates range from \$15,000 to \$18,000.

**For more information on a career in occupational therapy, CONTACT --**

Texas Occupational Therapy Association, Inc.

Post Office Box 2042

Austin, Texas 78768

512/479-8792

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	NO
examination required?	YES
employment outlook?	EXCELLENT

# OPTOMETRIST

D.O.T. 079.101

## Job Description

Optometrists examine eyes for vision problems and prescribe treatments without the use of medicine, drugs, or surgery. Treatments may consist of eyeglasses, contact lenses, or eye exercises. They use special instruments to test for depth and color perception and the ability to focus and coordinate the eyes. Some optometrists supply patients with eyeglasses and make minor repairs on them.

## Job Requirements

- \* ability to deal with people
- \* understanding of business practices
- \* self-discipline
- \* ability to do precision work

## License Requirements (VACS 4552) (22 TAC 273)

- \* at least 21 years of age
- \* good moral character
- \* specialized education

### Examination

- \* transcript required
- \* written exam
- \* may include practical

### Restrictions on Licensing

- \* incompetence or negligence
- \* deceit, fraud or misrepresentation in practice or on application
- \* conviction of a felony or misdemeanor involving moral turpitude
- \* addiction to alcohol or drugs

### Fees Not to Exceed

- \* \$ 55.00 for examination
- \* \$ 40.00 for license
- \* \$135.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas Optometry Board  
1300 East Anderson Lane, C-240  
Austin, Texas 78752  
512/835-1938



## Education/Training

- \* graduation from high school
- \* graduation from a reputable college or university of optometry, acceptable to the board, whose term of instruction shall not be less than six terms of eight months each
- \* for renewal of license, 12 hours continuing education per year

For a listing of schools, CONTACT --  
Texas Optometry Board

## Working Conditions

- \* may set own hours
- \* close contact with clients

## Career Opportunities/Employment Outlook

Optometrists may begin practice as associates of established practitioners. After enough experience has been acquired, they may elect to begin their own practices or to specialize. Optometrists are also employed by the Armed Forces and public health clinics. With advanced education, some may enter into research or teaching positions. Studies show that cities with populations between 5,000 and 50,000 provide the best opportunities for optometrists.

The outlook for optometrists in Texas is balanced, with definite improvement by 1988. The employment figure for 1978 was 500; and the projected figure for 1985 is 600.

Beginning salaries for optometrists average \$17,000 to \$18,000.

For more information on a career in optometry, CONTACT --  
Texas Optometric Association  
National Building  
Austin, Texas 78701  
512/478-1621

## At a Glance . . .

postsecondary schooling?	YES, 6 years
minimum age requirement?	YES, over 21
examination required?	YES
employment outlook?	BALANCED

## Job Description

Pharmacists compound and dispense drugs and medicines prescribed by physicians and dentists. They advise the public on uses of prescription and non-prescription medicines. Pharmacists may test drugs for purity and strength, advising physicians on the proper selection and use. They may be employed by community pharmacies, clinics, hospitals, or government services. Pharmacists employed in retail stores may be responsible for managing and supervising employees in the pharmacy.

## Job Requirements

- \* sense of responsibility
- \* ability to gain confidence of clients
- \* ability for detailed recordkeeping

## License Requirements (VACS 4542a-1) (22 TAC 283)

- \* at least 18 years of age
- \* good moral character
- \* specialized education and training

### Examination

- \* National Association of Boards of Pharmacy Licensing Exam (NABPLEX)
- \* written/oral/practical

### Restrictions on Licensing

- \* addiction to drugs or alcohol
- \* any violation of drug or pharmacy laws or regulations
- \* unprofessional conduct
- \* conviction of a crime involving moral turpitude

### Fees Not to Exceed

- \* \$150.00 for examination
- \* \$ 85.00 for license
- \* \$ 85.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas State Board of Pharmacy  
211 East 7th Street, Suite 1121  
Austin, Texas 78701  
512/478-9827

## Education/Training

- \* graduation from an accredited college of pharmacy
- \* internship of 1000 hours in Board-approved program; OR
- \* demonstration of equivalent experience

For a listing of schools, CONTACT --  
Texas State Board of Pharmacy

## Working Conditions

- \* sanitary surroundings
- \* may work irregular hours
- \* may work in medical or business environment

## Career Opportunities/Employment Outlook

Pharmacists often begin as employees in community pharmacies. They may advance to owner or manager of the business. Those who work in hospital pharmacies may advance to director of pharmacy services. Many work as representatives for pharmaceutical companies. Some engage in research and development of new drugs. Pharmacists also write reports for technical journals or inserts for packaged drugs. Colleges of pharmacy, medicine, and nursing employ pharmacists as teachers. Government agencies employ them as inspectors, pharmacists, or narcotics control consultants. Opportunities are greatest in populous areas and communities with large medical centers.

The average annual employment for pharmacists was 6,300 in 1978; in 1985, it should rise to 8,100. The employment outlook for pharmacists is balanced, with improvement projected for 1988. Salaries for beginning pharmacists average between \$23,000 and \$25,000.

For more information on a career in pharmacy, CONTACT --  
Texas Pharmaceutical Association  
1624 US Highway 183 East  
Austin, Texas 78752  
512/836-8350

## At a Glance . . .

postsecondary schooling?	YES, 5 years
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	BALANCED

# PHYSICAL THERAPIST

D.O.T. 076.121

## Job Description

Using therapeutic procedures, physical therapists treat persons with muscle, nerve, joint, and bone diseases or injuries. These procedures include exercise, massage, heat, cold, light, water, and electricity. Physical therapists test for muscle strength, respiratory and circulatory efficiency, and motor development in their patients. They work closely with physicians in determining the course of treatment best suited for a particular patient. They also help disabled persons accept their handicaps and adjust to them.

## Job Requirements

- \* emotional stability
- \* manual dexterity
- \* tact and patience

## License Requirements (VACS 4512e) (22 TAC 329)

- \* specialized education and training

### Examination

- \* transcript and diploma required
- \* written exam

### Restrictions on Licensing

- \* license fraudulently obtained
- \* use of drugs or alcohol affecting professional competence
- \* practice with patients not referred by a licensed health professional
- \* conviction of a felony

### Fees Not to Exceed

Physical Therapist:

- \* \$40.00 for application
- \* \$75.00 for examination
- \* \$55.00 for annual renewal

Physical Therapist Assistant:

- \* \$40.00 for application
- \* \$70.00 for examination
- \* \$45.00 for annual renewal

For more information on licensing requirements, CONTACT --

Texas State Board of Physical Therapy Examiners  
1300 East Anderson Lane, C-260  
Austin, Texas 78752  
512/835-1846

## Education/Training

Physical Therapist:

- \* completion of accredited curriculum in physical therapy education and 60 semester credits from a recognized college

Physical Therapy Assistant:

- \* completion of an accredited physical therapy assistant program

For a listing of schools, SEE --

Directory of Schools Certificated Under Texas Proprietary School Act

or CONTACT --

Texas State Board of Physical Therapy Examiners

## Working Conditions

- \* indoor
- \* sanitary
- \* regular hours

## Career Opportunities/Employment Outlook

Most physical therapists work in hospitals or nursing homes. Some work in public health clinics, rehabilitation centers, or are self-employed. Therapists are also employed by the Armed Forces. Those with graduate degrees may teach in schools of physical therapy or conduct research in a particular area. With several years of experience, physical therapists may become program administrators in hospitals or clinics. Suburban or rural areas have the best employment opportunities.

In Texas, employment possibilities for therapists are excellent, and expected to become even brighter by 1988. In 1978, there were 1,400 physical therapists employed. The projected figure for 1985 is 2,000.

Salaries for beginning therapists in Texas range from \$16,000 to \$19,000.

For more information on a career in physical therapy, CONTACT --

Texas Chapter of the American Physical Therapy Association  
211 East 7th Street, Suite 714  
Austin, Texas 78701  
512/477-1818

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	NO
examination required?	YES
employment outlook?	EXCELLENT

# PHYSICIAN

D.O.T. 070.101

## Job Description

Physicians diagnose, prescribe medicines for, and treat disorders of the human body. They analyze test findings and reports to diagnose the patient's condition. Methods of treatment include surgery, X-rays, or drugs. Physicians promote health by advising patients on diet, hygiene, and disease prevention. Physicians most often specialize in one aspect of medical care, such as, among others, obstetrics, psychiatry, pathology, radiology, or pediatrics. Most physicians are in private practice.

## Job Requirements

- \* desire to serve the sick and injured
- \* good judgment
- \* emotional stability

## License Requirements (VACS 4501) (22 TAC 163)

- \* United States citizen
- \* good professional and moral character
- \* specialized education and training

### Examination

- \* medical - Federation Licensing Examination (FLEX)
- \* jurisprudence - Texas law

### Restrictions on Licensing

- \* license fraudulently obtained
- \* conviction of a felony, or any crime involving moral turpitude
- \* prescribing drugs which are non-therapeutic in nature
- \* intemperance or drug abuse endangering patients
- \* unprofessional conduct

### Fees Not to Exceed

- \* \$500.00 for application processing and examination
- \* \$100.00 for intern and resident permits
- \* \$100.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas State Board of Medical Examiners  
1101 Camino La Costa, Suite 201  
Austin, Texas 78711  
512/475-0741

## Education/Training

- \* 60 semester hours of premedical college courses
- \* graduation from an approved medical school or college
- \* one-year program of graduate medical training approved by Board

**For a listing of schools, CONTACT --**  
Texas State Board of Medical Examiners

## Working Conditions

- \* may work irregular hours
- \* may work under stress
- \* close contact with clients

## Career Opportunities/Employment Outlook

After the licensing examination has been passed, the medical profession requires a period of internship, lasting one to two years. Specialization in a particular field requires a period of residency, lasting one to four years. Physicians are then ready to enter private or group practice, governmental service such as the Armed Forces, or industrial medicine. After acquiring experience, they may teach, do research, or become administrators. Some physicians work as residents or full-time staff of hospitals. Currently, medical students are being exposed to practice in rural areas where there is a shortage of qualified medical personnel.

The growth in population and longer life expectancy have contributed to the increase in the need for physicians. In Texas, 12,900 physicians were employed in 1978. The projected increase for 1985 places employment at 17,900.

The outlook for physicians in Texas is very good. Salaries in Texas for residents in training average \$22,000 to \$23,000. For physicians who have completed internship and residency, salaries start between \$35,000 and \$37,000.

**For more information on a career in medicine, CONTACT --**  
Texas Medical Association  
1801 North Lamar  
Austin, Texas 78701  
512/477-6704

## At a Glance . . .

postsecondary schooling?	YES, 6+ years
minimum age requirement?	YES, over 21
examination required?	YES
employment outlook?	VERY GOOD

# PLUMBER

D.O.T. 862.381

## Job Description

Plumbers install, alter, or repair pipe systems conducting liquids or gases such as water, steam, or air. They install plumbing fixtures, appliances, heating and cooling systems, and waste disposal systems. On a job, plumbers inspect the installation site; cut, thread and bend pipes to exact specifications; and join them using welds or threading. Pipefitters do essentially the same work as plumbers, differing only in job location and variety of pipes used.

## Job Requirements

- \* good physical condition
- \* mechanical aptitude
- \* ability to work well with others

## License Requirements (VACS 6243-101) (22 TAC 361)

### Journeyman:

- \* good moral character
- \* at least 17 years of age
- \* specialized training and experience

### Master:

- \* good moral character
- \* at least 18 years of age
- \* must have had journeyman license for at least one year

## Examination

- \* written
- \* mechanical

## Restrictions on Licensing

- \* license fraudulently obtained
- \* conviction of felony or certain misdemeanors
- \* violation of municipal sanitation rules

## Fees Not to Exceed

- \* \$50.00 for exam (Journeyman); \$75.00 for exam (Master)
- \* \$50.00 for license (Journeyman); \$75.00 for license (Master)
- \* \$50.00 for annual renewal (Journeyman); \$75.00 for annual renewal (Master)

## For more information on licensing requirements, CONTACT --

Texas State Board of Plumbing Examiners  
Post Office Box 4200  
Austin, Texas 78765  
512/458-2145



## Education/Training

Journeyman:

- \* combination of work experience and/or technical training equaling 3 years; at least 18 months must be practical experience

Master:

- \* must have held journeyman's license for 12 months

For a listing of schools, SEE --

Directory of Schools Certificated Under Texas Proprietary School Act

## Working Conditions

- \* indoor/outdoor
- \* active and strenuous
- \* may be hazardous at times

## Career Opportunities/Employment Outlook

Beginning plumbers work as apprentices or plumber's helpers until they gain enough experience to become journeymen. Journeymen plumbers work under the supervision of master plumbers until the master plumbers examination is passed. Master plumbers may work for contractors, advancing to foreman, job estimator, or superintendent. If self-employed, plumbers may form their own contracting firms. Plumbers are needed in all communities, especially in areas of increased construction and renovation.

In Texas, 25,400 plumbers were employed in 1978. The expected annual employment by 1985 is 34,000. The employment outlook for plumbers is very good, and is expected to improve by 1988. Salaries for plumbers in Texas vary greatly, depending on the locality worked and union membership.

For more information on a career in plumbing, CONTACT --

Association of Plumbing and Heating Contractors of Texas  
4302 Airport Boulevard  
Austin, Texas 78722  
512/454-7383

## At a Glance . . .

postsecondary schooling?	NO
minimum age requirement?	YES, over 17
examination required?	YES
employment outlook?	VERY GOOD

## Job Description

Podiatrists diagnose and treat diseases or deformities of the feet by using X-rays, medications, plaster casts, or prosthetics. Some common problems treated include calluses, warts, flat feet, and arch problems. They refer any systemic disorders observed in feet and legs to a physician for treatment. Podiatrists may specialize in areas such as orthopedics, podopediatrics, or podogeriatrics.

## Job Requirements

- \* scientific aptitude
- \* manual dexterity

## License Requirements (VACS 4567) (22 TAC 371)

- \* at least 21 years of age
- \* good moral character
- \* specialized education and training

### Examination

- \* written
- \* practical

### Restrictions on Licensing

- \* conviction of a felony, or any crime involving moral turpitude
- \* misleading or deceptive advertising
- \* license fraudulently obtained

### Fees Not to Exceed

- \* \$115.00 for examination
- \* \$150.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas State Board of Podiatry Examiners  
411 West 13th Street, Suite 504  
Austin, Texas 78701  
512/475-1770

## Education/Training

- \* completion of 90 semester hours of college courses
- \* graduation from a bona fide reputable school of podiatry or chiropody consisting of at least four terms of eight months each
- \* any other training required by Board

**For a listing of schools, CONTACT --**  
Texas State Board of Podiatry Examiners

## Working Conditions

- \* indoor
- \* sanitary
- \* may set own hours

## Career Opportunities/Employment Outlook

Newly licensed podiatrists may work as associates to established practitioners or in clinics or hospitals. They may also purchase an established practice or start one of their own. Podiatrists may advance by becoming specialists in one area of podiatry or concentrating exclusively on foot surgery. Some work in public health clinics or the Armed Forces. Those with experience and advanced training may pursue a career in teaching at a college of podiatry. Studies show the best opportunities for private practice exist in towns of over 50,000.

The outlook for podiatrists in Texas is very good. Foot disorders are among the most widespread and neglected problems, increasing the demand for podiatrists. In 1978, 150 podiatrists were employed in Texas; the projected 1985 figure is 200. Nationally, salaries for podiatrists employed in Veterans Administration hospitals range from \$22,400 to \$26,900.

**For more information on a career in podiatry, CONTACT --**  
Texas Podiatry Association  
5017 Bull Creek Road  
Austin, Texas 78731  
512/453-6533

## At a Glance . . .

postsecondary schooling?	YES, 7 years
minimum age requirement?	YES, over 21
examination required?	YES
employment outlook?	VERY GOOD

# POLYGRAPH EXAMINER

D.O.T. 199.267

## Job Description

Using specialized equipment, polygraph examiners question individuals to verify the truth of their statements. They attach the equipment to the individual to record changes in respiration, blood pressure, and electrical resistance of the skin. Polygraph examiners interpret the data recorded and prepare reports on the findings. They may be employed by police departments for specific criminal cases, which can result in appearances in court.

## Job Requirements

- \* ability to work well with people
- \* ability to interpret graphs and charts
- \* good judgment

## License Requirements (VACS 4413[29cc]) (22 TAC 391)

- \* specialized education and training
- \* \$5,000 surety bond or insurance policy covering activities as examiner

### Examination

- \* legal and ethical aspects of polygraph
- \* psychology
- \* chart interpretation

### Restrictions on Licensing

- \* conviction of a felony or misdemeanor involving moral turpitude
- \* failing to inform subject of the nature of the examination
- \* failing to inform subject of results if so requested

### Fees Not to Exceed

- \* \$225.00 for examiners license
- \* \$115.00 for intern license
- \* \$210.00 for annual renewal (examiner); \$40.00 renewal (intern)

### For more information on licensing requirements, CONTACT --

Board of Polygraph Examiners  
Post Office Box 4143  
Austin, Texas 78765  
512/465-2058

## Education/Training

### Intern Permit:

- \* bachelor's degree from accredited college; OR
- \* five consecutive years of active investigative experience; AND
- \* sponsorship by licensed examiner

### Examiner:

- \* bachelor's degree from accredited college; OR
- \* five consecutive years of active investigative experience; AND
- \* graduation from approved polygraph examiners course and six months of internship training; OR
- \* twelve months of internship training in lieu of polygraph examiners course

**For a listing of schools, CONTACT --**  
Board of Polygraph Examiners

## Working Conditions

- \* regular hours
- \* may travel

## Career Opportunities/Employment Outlook

Newly licensed examiners may be employed by large corporations such as factories or retail stores. Investigative agencies may also hire polygraph examiners either full-time or on contract. Examiners may form partnerships or operate their own services. Manufacturers of polygraph equipment may employ examiners as representatives. Schools that teach polygraph courses also employ examiners. The best opportunities are in larger urban areas.

As the practice becomes widespread among employers and investigative agencies, more polygraph examiners will be needed. Because much of a polygraph examiner's work is in pre-employment interviews, economic slowdowns and high unemployment affect demand for polygraph examiners. However, the outlook for the field can be considered balanced. Salaries for beginning polygraph examiners average about \$18,000.

**For more information on a career as a polygraph examiner, CONTACT --**  
Texas Association of Polygraph Examiners  
Post Office Box 13481  
Austin, Texas 78711  
512/444-8463

## At a Glance . . .

postsecondary schooling?	YES, 4-5 years
minimum age requirement?	NO
examination required?	YES
employment outlook?	BALANCED

## Job Description

Private investigators obtain confidential information by questioning individuals as to the nature of a crime or wrongdoing. They may investigate thefts, fires, accidents, injuries, or missing persons. They collect evidence on the case, write reports for clients, and may testify in court. Security guards observe private property to protect it against fire, vandalism, trespass, or larceny. They may protect different kinds of property, such as buildings, merchandise, equipment, or money. Security guards also protect individuals from bodily harm.

## Job Requirements

- \* trustworthy
- \* good hearing and vision
- \* good personal habits

## License Requirements (VACS 4413 [29bb]) (22 TAC 429)

- \* at least 18 years of age
- \* honorable military discharge, if applicable
- \* specialized training and experience

### Examination

- \* written examination may be required

### Restrictions on Licensing

- \* conviction of felony or any crime involving moral turpitude
- \* addiction to alcohol or drugs

### Fees Not to Exceed

- \* \$225.00 for Class A license (private investigation firm)
- \* \$225.00 for Class B license (securities service firm)
- \* \$340.00 for Class C license (both private investigation and securities service firm)
- \* \$ 25.00 for registration and renewal of individual employed by firm

### For more information on licensing requirements, CONTACT --

Texas Board of Private Investigators and Private Security Agents  
510 South Congress, Suite 116  
Austin, Texas 78704  
512/475-3944

## Education/Training

- \* 3 years consecutive experience in investigative field for private investigations firm license; OR
- \* 2 years consecutive experience in security services field for security services firm license
- \* completion of approved training course consisting of at least 30 hours

For a listing of schools, SEE --

Directory of Schools Certificated Under Texas Proprietary School Act

or CONTACT --

Texas Board of Private Investigators and Private Security Agents

## Working Conditions

- \* indoor/outdoor
- \* may work night shift
- \* often work alone

## Career Opportunities/Employment Outlook

Private investigators employed by licensed firms must be registered. Private investigators or security guards who are self-employed must be licensed as agencies. Employment for security guards is available with factories, private businesses, government installations, and schools. Opportunities are generally better in highly industrialized areas. Outlook in the field may be considered balanced.

Salaries for private investigators and security guards may range from \$8,000 to \$28,000.

For more information on a career in investigation, CONTACT --

Texas Police Association  
Post Office Box 4247  
Austin, Texas 78765  
512/458-3140

## At a Glance . . .

postsecondary schooling?	NO
minimum age requirement?	YES, over 18
examination required?	POSSIBLE
employment outlook?	BALANCED

## Job Description

Psychologists attempt to understand the traits and behavior of people and to explain their actions. Using established principles, they explore problem areas within individuals or groups and gather information through testing, observation, study of case histories, surveys, and experimentation. They do not prescribe drugs or treat medical disorders. A doctorate is necessary for career advancement.

## Job Requirements

- \* perseverance
- \* maturity, stability, sensitivity

## License Requirements (VACS 4512c) (22 TAC 461)

### Certification:

- \* at least 18 years of age
- \* good moral character
- \* specialized education and training

### License:

- \* certification as a psychologist
- \* two years experience in psychological services

### Examination

- \* knowledge of psychology
- \* knowledge of Texas law

### Restrictions on Licensing

- \* addiction to drugs or alcohol
- \* fraud or deceit in application
- \* conviction of a felony, or any crime involving moral turpitude

### Fees Not to Exceed

#### Psychologist:

- \* \$105.00 for application (certification); \$75.00 (license)
- \* \$120.00 for examination
- \* \$125.00 for annual renewal (certification); \$70.00 for annual renewal (license)

#### Psychological Associate:

- \* \$90.00 for application (certification)
- \* \$25.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas State Board of Examiners of Psychologists  
1300 East Anderson Lane, C-270  
Austin, Texas 78752  
512/835-2036



## Education/Training

### Psychologist:

- \* doctoral degree based on a program of primarily psychological studies from an accredited institution

### Psychological Associate:

- \* master's degree based on a program of primarily psychological studies
- \* 450 clock hours of experience under licensed psychologist

For a listing of schools, CONTACT --  
Texas State Board of Examiners of Psychologists

## Working Conditions

- \* interaction with people
- \* may conduct experiments in a controlled setting
- \* may be involved in research and/or lecture

## Career Opportunities/Employment Outlook

Over half of all psychologists work in educational institutions as counselors, researchers, or teachers. Others are employed by health facilities such as rehabilitation centers and clinics. Government agencies employ psychologists to administer tests and conduct rehabilitation counseling. Some work for corporations and research firms or as consultants. Under the supervision of a psychologist, those with master's degrees may collect and analyze data and interpret tests. With proper experience, assistants also may obtain certain school counseling jobs. Those with bachelor's degrees usually work as administrative or research assistants.

In Texas, there were 2,100 psychologists employed in 1978. An increase, to 2,700, is expected by 1985. The outlook for those with bachelor's degrees is competitive, but for those with graduate degrees it is balanced.

Salaries of beginning psychologists with a graduate degree average \$17,000 to \$18,000 in Texas.

For more information on a career in psychology, CONTACT --  
Texas Psychological Association  
Post Office Box 9404  
Austin, Texas 78766  
512/258-5351

## At a Glance . . .

postsecondary schooling?	YES, 6+ years
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	COMPETITIVE

# REAL ESTATE BROKER/SALES

D.O.T. 250.357

## Job Description

Real estate sales agents and brokers represent property owners in selling or renting property. Agents sell real estate, handle rental properties, and obtain listings. They determine the fair market value, identify potential buyers, and show them the property. Real estate brokers develop building projects, manage properties, and make appraisals in addition to selling real estate. They are independent business people who employ sales agents, advertise properties, and manage industrial or rental properties.

## Job Requirements

- \* maturity and honesty
- \* enthusiasm
- \* ability to communicate well

## License Requirements (VACS 6573a) (22 TAC 535)

- \* United States citizen or legal alien
- \* Texas resident for at least 60 days
- \* at least 18 years of age
- \* sponsorship by a broker (sales agent only)
- \* specialized education and/or training

### Examination

- \* written exam
- \* study materials available

### Restrictions on Licensing

- \* license fraudulently obtained
- \* conviction of a felony involving fraud
- \* material misrepresentation of property
- \* dishonest dealings

### Fees Not to Exceed

- \* \$100.00 for application (broker); \$50.00 for application (agent)
- \* \$100.00 annual renewal (broker); \$50.00 annual renewal (agent)
- \* \$ 25.00 examination

### For more information on licensing requirements, CONTACT --

Texas Real Estate Commission  
1101 Camino La Costa  
Austin, Texas 78711  
512/459-6544

## Education/Training

Sales Agent:

- \* completion of 12 semester hours or 180 classroom hours in real estate courses from an accredited college or school

Broker:

- \* at least 2 years active experience as agent, and 48 hours of acceptable courses; OR
- \* at least 48 semester hours of acceptable courses (increases to 60 hours in January, 1985)

For a listing of schools, SEE --

Directory of Schools Certificated Under Texas Proprietary School Act

## Working Conditions

- \* evening and weekend work
- \* extensive travel
- \* can work full or part time

## Career Opportunities/Employment Outlook

Generally, beginning sales agents work in an established office. In a small office, they will be exposed to all types of duties, whereas in a large office they may specialize. Much of the new agent's time will be devoted to establishing a clientele and seeking listings. They may advance by becoming brokers, specializing in one type of property, or managing a real estate firm. Some sales agents pursue careers in appraising. Real estate brokers may employ sales agents, or operate a one-person business. Many brokers have entered franchise agreements, using a nationally known company name in exchange for a fee. They may speculate and purchase property that will facilitate development. Experienced brokers may join real estate departments of corporations or government agencies.

In 1978, average annual employment in real estate sales was 6,100; in 1985, it is expected to be 7,800. The outlook for real estate professionals is balanced. Salaries of brokers and sales agents are usually paid as commission on sales. Beginners average between \$15,000 and \$17,000.

For more information on a career in real estate, CONTACT --

Texas Association of Realtors  
Post Office Box 14488  
Austin, Texas 78761  
512/836-8630

At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	BALANCED

# SANITARIAN

D.O.T. 079.117

## Job Description

Sanitarians apply technical knowledge to the solution of problems of a sanitary nature. They develop environmental health programs, conduct public training sessions, and investigate public health complaints. Sanitarians determine and set health and sanitation standards for communities and industries in regard to food processing, solid waste disposal, sewage treatment, and water supplies. They evaluate existing programs and recommend improvements.

## Job Requirements

- \* attention to detail
- \* ability to communicate
- \* concern for environment

## License Requirements (VACS 4477-3) (25 TAC 181)

- \* specialized education and training

### Examination

- \* written exam

### Restrictions on Licensing

- \* incompetence
- \* license fraudulently obtained
- \* unprofessional conduct

### Fees Not to Exceed

- \* \$10.00 for registration
- \* \$ 5.00 for sanitarian-in-training registration
- \* \$10.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas State Board of Health  
Department of Health  
1100 West 49th Street  
Austin, Texas 78756  
512/458-7536

## Education/Training

### Sanitarian:

- \* graduation from recognized college or university with at least 15 semester hours in basic and/or natural science
- \* at least one year of experience in the field

### Sanitarian-in-Training:

- \* graduation from a recognized college or university with at least 15 semester hours in basic and/or natural science

For a listing of schools, CONTACT --  
Texas State Board of Health

## Working Conditions

- \* may travel
- \* may instruct others

## Career Opportunities/Employment Outlook

Newly registered sanitarians generally enter the field as junior sanitarians. As experience increases, many advance to chief sanitarian. Employment possibilities are best in health departments or large industrial corporations. Many are employed by municipal or governmental agencies to supervise public health programs. Some actively inspect food establishments, schools, water supplies, and sewage systems. They may concentrate on the investigation of complaints or nuisances. The opportunities for sanitarians are best in areas with large populations and industries.

Nationally, the employment outlook for sanitarians is competitive, affected by the generally slow growth in government. Beginning salaries range from \$14,000 to \$18,000 for non-supervisory personnel, and \$21,000 to \$29,000 for supervisors. For those sanitarians who are engineers, employment prospects are very good; beginning salaries average from \$22,000 to \$29,000 a year.

For more information on a career as a sanitarian, CONTACT --  
Texas Environmental Health Association  
c/o Burl Cockrell  
Post Office Box 187  
Grand Prairie, Texas 75051

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	NO
examination required?	YES
employment outlook?	COMPETITIVE TO VERY GOOD

# SECURITIES DEALER

D.O.T. 251.157

## Job Description

Securities sales agents represent individuals and organizations in transactions concerning stocks, bonds, or other securities. They open accounts for customers and contact the securities exchange with the buy or sell order. They may give financial advice on securities purchases or sales, basing the advice on current market trends. Securities sales agents must continually monitor the economic and political situation, and also maintain accurate records of all transactions. They may specialize by type of customer or securities handled.

## Job Requirements

- \* ambition
- \* ability to work independently
- \* analytical ability

## License Requirements (VACS 581-13) (7 TAC 115)

- \* character check
- \* financial and personal history check

### Examination

- \* examination on bonds required for certain categories of dealers

### Restrictions on Licensing

- \* conviction of felony or misdemeanor including element of fraud
- \* inequitable business practice
- \* material misrepresentation

### Fees Not to Exceed

- \* \$15.00 for agent application
- \* \$15.00 for agent annual renewal
- \* \$35.00 for dealer application and \$15.00 for each officer
- \* \$35.00 for dealer annual renewal

For more information on licensing requirements, CONTACT --

State Securities Board  
1800 San Jacinto  
Austin, Texas 78711  
512/474-2233

## Education/Training

- \* on-the-job training
- \* college degree helpful

## Working Conditions

- \* work is cyclical
- \* much activity in office-like work area

## Career Opportunities/Employment Outlook

For beginning sales agents, many employers provide training programs which consist of both classroom instruction and on-the-job training. Sales agents then begin a probationary period to demonstrate their capabilities. Initially, agents spend much time developing customer contacts. Once a clientele has been established, advancement may consist of increases in the volume and size of accounts handled. Some agents may advance into managerial positions, or become partners in established firms. Most sales agents work for a small number of large companies, either in main or branch offices.

Opportunities in securities sales are expected to increase with economic growth and rising personal income, but demand fluctuates with the economy. Salaries for agents in training may range from \$900 to \$1200 per month. Earnings for licensed securities sales agents generally depend on commissions from the sale of stocks, bonds and other securities, but many firms provide a minimum salary based on expected commissions. Experienced securities dealers can average between \$44,000 and \$88,000 per year.

**For more information on a career in securities sales, CONTACT --**

National Association of Securities Dealers, District 6  
1407 Main Street  
Dallas, Texas 75202  
214/742-4103

## At a Glance . . .

postsecondary schooling?	NO
minimum age requirement?	NO
examination required?	YES
employment outlook?	BALANCED

## Job Description

Social workers are "community troubleshooters." They help individuals, families and groups cope with problems through counseling and/or referral to other specialists, and plan activities for age groups from children through senior citizens. As community organizers, they may coordinate resources and groups to combat community problems. Social workers assist people whose lives are affected by poverty, alcohol, drug abuse, behavior problems, illness or family disruption. They may find families to adopt or care for children; help needy families find the resources they require; and investigate allegations of child neglect and abuse. Specialties in the social work field include school, medical, or psychiatric social workers, probation and parole officers, and child welfare workers.

## Job Requirements

- \* basic concern for people and their problems
- \* emotional maturity
- \* sensitivity

## License Requirements (Human Resources Code 50.001)

- \* 18 years of age
- \* worthy of public trust and confidence
- \* specialized education and training

### Examination

- \* written exam

### Restrictions on Licensing

- \* unethical conduct
- \* fraud or deceit
- \* conviction of a felony

### Fees Not to Exceed

- \* Social Work Associate: \$15.00 certification, \$15.00 annual renewal
- \* Social Worker: \$25.00 certification, \$25.00 renewal
- \* Certified Social Worker: \$35.00 certification, \$35.00 renewal
- \* Certified Social Worker with Order of Recognition as Advanced Clinical Practitioner: \$45.00 certification, \$45.00 renewal

### For more information on licensing requirements, CONTACT --

Council for Social Work Certification  
Texas Department of Human Resources  
Post Office Box 2960  
Austin, Texas 78769  
512/441-3355



## Education/Training

### Certified Social Worker:

- \* doctoral or master's degree in social work or social welfare from approved, accredited graduate school

### Social Worker:

- \* bachelor's degree in social work, social welfare, equivalent

### Social Work Associate:

- \* bachelor's degree and social work experience; OR
- \* associate degree and experience specified by Board; OR
- \* high school diploma and experienced specified by Board

**For a listing of schools, SEE --**

Directory of Schools Certificated Under Texas Proprietary School Act

**or CONTACT --**

Council for Social Work Certification

## Working Conditions

- \* may require weekend or evening work
- \* may require driving a car
- \* may have to handle emergencies

## Career Opportunities/Employment Outlook

Most social workers are employed in the public sector, working for state, county, or municipal government. Others work for voluntary agencies, community or religious organizations, hospitals, nursing homes and related agencies. Industrial social workers counsel employees with emotional, alcohol-related and other problems. A small but growing number are in private practice. Advancement usually comes through promotion to supervisor or administrator.

The employment outlook for social workers is balanced, with supply and demand about equal. Beginning salaries in Texas average between \$12,000 and \$14,000 for social work associates, and \$16,000 to \$17,000 for those with graduate degrees. Certified social workers can expect to earn \$22,000 to \$26,000.

**For more information on a career in social work, CONTACT --**

National Association of Social Workers, Texas Chapter  
2520 IH35 South, Suite 201  
Austin, Texas 78701  
512/445-5071

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	YES, 18
examination required?	YES
employment outlook?	BALANCED

# SPEECH-LANGUAGE PATHOLOGIST/ AUDIOLOGIST

D.O.T. 076.101

## Job Description

Speech-language pathologists and audiologists are concerned with communication, and helping to correct the speech or hearing difficulties that interfere with it. Speech pathologists work with children or adults who have speech, language and voice disorders, while audiologists assess and treat hearing problems. Speech pathologists and audiologists identify and evaluate disorders, then cooperate with physicians and other health professionals to design and implement a program of therapy. Because speech and hearing are closely interrelated, a person must be familiar with both these fields to be competent in either one.

## Job Requirements

- \* concern for the needs of others
- \* objectivity
- \* patience
- \* attention to detail

## License Requirements (Senate Bill 813, 68th Legislature)

- \* specialized education and training
- \* separate license required for speech/language pathology and audiology, but an individual may hold both licenses if qualified

### Examination

- \* written and/or oral exam
- \* waived for persons holding Certificate of Clinical Competence of the American Speech-Language-Hearing Association

### Restrictions on Licensing

- \* license fraudulently obtained
- \* unprofessional conduct
- \* conviction of a felony, or any crime involving moral turpitude

### Fees Not to Exceed

- \* \$75.00 for application
- \* \$50.00 for examination
- \* \$75.00 for license
- \* \$75.00 for annual renewal

### For more information on licensing requirements, CONTACT --

State Committee of Examiners for Speech Pathology and Audiology  
Texas Department of Health  
1100 West 49th Street  
Austin, Texas 78756  
512/458-7531

## Education/Training

- \* master's degree in speech/language pathology or audiology
- \* college transcripts showing course work in specified areas
- \* at least 30 hours of graduate courses, with at least 6 hours in speech pathology for audiologist licensees, and 6 hours in audiology for speech pathology licensees
- \* 300 clock hours of supervised clinical experience within training institution or cooperating program
- \* 9 months full-time supervised professional experience after academic and clinical experience

**For a listing of schools, CONTACT --**

State Committee of Examiners for Speech Pathology and Audiology

## Working Conditions

- \* may work long hours
- \* clean, comfortable surroundings
- \* intense concentration may be mentally exhausting

## Career Opportunities/Employment Outlook

Opportunities for speech pathologists and audiologists are expected to expand due to population growth and a trend toward earlier recognition and treatment of hearing and speech problems. Many of these positions will be outside of large metropolitan areas. Competition for teaching openings in colleges and universities is expected to be very strong. The average annual employment for speech and hearing therapists in Texas was 2,200 in 1978; that figure is expected to rise to 2,600 by 1985.

The employment outlook is balanced, with supply and demand about equal. Beginning salaries are averaging \$12,000 to \$17,000.

**For more information on a career in speech pathology or audiology, CONTACT --**

Texas Speech-Language-Hearing Association  
c/o Richard W. Stream, Executive Secretary  
Division of Communication Disorders  
North Texas State University  
Denton, Texas 76203  
817/565-2481

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	NO
examination required?	YES
employment outlook?	BALANCED

# TAX PROFESSIONAL/ASSESSOR

D.O.T. 188.167

## Job Description

Tax professionals in Texas may be appraisers, assessors and/or collectors. Appraisers use their judgment to place a value on a taxpayer's property. Assessors calculate tax rates and work with governing bodies to have these rates adopted. Collectors work to obtain current and delinquent property taxes. Typically, assessors are also collectors, although there are some collectors who do not assess. The 68th session of the Texas Legislature established the Board of Tax Professional Examiners (renaming the Board of Tax Assessor Examiners) to reflect changes in Texas property tax administration since the institution of assessor registration in 1977.

## Job Requirements

- \* mathematical ability
- \* attention to detail
- \* good judgment

## License Requirements (VACS 7244b) (22 TAC 623)

### Registration:

- \* must be active in property tax field applied for
- \* Texas resident
- \* at least 18 years of age
- \* good moral character

### Certification:

- \* Appraiser: 5 years experience, specialized education and training, 2 demonstration appraisals
- \* Assessor: 5 years experience, specialized education and training, professional report
- \* Collector: 3 years experience, specialized education and training

### Examination

#### For certification:

- \* Appraiser: 2 exams
- \* Assessor: 2 exams
- \* Collector: 1 exam

### Restrictions on Licensing

- \* violation of the law or code of ethics
- \* conviction of a felony involving moral turpitude

### Fees Not to Exceed

- \* \$50.00 for application
- \* \$35.00 for registration
- \* \$35.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Board of Tax Professional Examiners  
9501 North IH35  
Austin, Texas 78761  
512/837-8622

## Education/Training

Registration:

- \* high school diploma or equivalent

Certification:

- \* Assessor and Appraiser: 6-7 specified courses
- \* Collector: 4 specified courses

**For a list of in-service training courses, CONTACT --**  
Board of Tax Professional Examiners

## Working Conditions

- \* may involve travel
- \* may work odd hours

## Career Opportunities/Employment Outlook

Assessors are elected or appointed officials employed by governmental units such as counties, municipalities, or school districts. They often begin as deputy or assistant assessors to gain knowledge of the profession. A related field is appraising, which is valuation of property for a purpose, usually commercial, other than taxation. Appraisers also work for private firms or corporations.

The outlook for appraisers in Texas is balanced. Beginners can expect to earn between \$10,000 and \$17,000. In 1978, average annual employment of appraisers was 200; in 1985, it is expected to be 300. There were 1,500 assessors employed in Texas in 1978. That figure probably will rise to 1,800 by 1985. Nationally, the employment outlook for assessors is balanced to slightly declining. Beginning salaries nationally average about \$16,000. Salaries for assessors vary greatly, depending upon the size of the district in which they work.

**For more information on a career as an assessor, CONTACT --**  
Texas Association of Assessing Officers  
812 San Antonio  
Austin, Texas 78701  
512/475-5527

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	YES, 18
examination required?	YES
employment outlook?	BALANCED

# TEACHER

D.O.T. 094.227

## Job Description

Teachers help people of all ages master a specific skill or concept. Elementary school teachers play a vital role in the development of children. In addition to basic concepts, they help children learn social and behavioral skills. Secondary school teachers instruct junior or senior high students in specific subjects. They may use various methods to present material including lectures, slides, field trips, films, and computer terminals. College and university teachers present an in-depth analysis of a particular subject. As a supplement to teaching, many participate in professional activities and conduct research in their fields. Some also act as advisors, helping students with graduation requirements and career choices.

## Job Requirements

- \* ability to communicate
- \* sense of fair play
- \* enthusiasm for working with others

## License Requirements (Education Code 13.033-043)

- \* United States citizen
- \* at least 18 years of age
- \* good moral character
- \* willing to support and defend Texas and U.S. Constitutions
- \* credit in knowledge of Texas and U.S. government and history
- \* ability to speak and understand English
- \* specialized education and/or training

### Examination

- \* none required now; competency testing will begin in 1986

### Restrictions on Licensing

- \* violation of laws concerning teaching
- \* unworthiness in the instruction of youth
- \* abandonment of contract
- \* conviction of a felony, or misdemeanor related to teaching duties

### Fees Not to Exceed

- \* \$10.00 for certificate

### For more information on licensing requirements, CONTACT --

Texas Education Agency  
158 East Riverside  
Austin, Texas 78704  
512/475-2721

## Education/Training

- \* completion of an approved program at an approved institution of higher learning and recommendation given for certification by that institution

For more information on specific certification levels and a listing of schools, CONTACT --

Texas Education Agency

## Working Conditions

- \* nine month working year
- \* lecture plus preparation time required

## Career Opportunities/Employment Outlook

Teachers may choose the grade level they wish to teach, whether preschool, elementary, secondary, or postsecondary. A higher level of education is required for college/university teaching. Teachers may be employed by private or public schools. Some may supplement their regular teaching duties by working as camp counselors, teaching summer session courses, or coaching athletic teams. Education and experience are the basis for advancement which is usually in the form of higher salaries, although some attain supervisory or administrative positions. Employment is largest in an expanding population area.

In Texas, the total number of teachers employed in 1978 was 243,400. This number is expected to increase to 289,400 in 1985. The employment outlook is excellent for bilingual teachers, very good for special education and secondary school teachers, and balanced for elementary teachers, with some improvement by 1988. Beginning salaries for public school teachers in Texas range from \$11,000 to \$21,000 per nine-month working year.

For more information on a career in teaching, CONTACT --

Texas State Teachers Association  
316 West 12th Street  
Austin, Texas 78701  
512/476-5355

## At a Glance . . .

postsecondary schooling?	YES, 4-5 years
minimum age requirement?	YES, over 18
examination required?	NO
employment outlook?	BALANCED TO EXCELLENT

# VETERINARIAN

D.O.T. 073.101

## Job Description

Veterinarians diagnose, treat, and control diseases in animals, as well as determine the extent of, and prescribe treatment for, injuries in animals. They help prevent the spread of animal disease to humans. Many specialize in small animals or house pets. Others concentrate on the health and breeding of cattle, sheep, horses, swine, and poultry. Some veterinarians inspect meat and poultry as part of government health programs.

## Job Requirements

- \* strength and stamina
- \* physical courage
- \* love of animals

## License Requirements (VACS 7465a) (22 TAC 571)

- \* at least 18 years of age
- \* specialized education and training

### Examination

- \* written and/or
- \* practical

### Restrictions on Licensing

- \* license fraudulently obtained
- \* addiction to alcohol or drugs
- \* conviction of a felony
- \* unprofessional conduct

### Fees Not to Exceed

- \* \$200.00 for application and license
- \* \$ 85.00 for annual renewal

### For more information on licensing requirements, CONTACT --

Texas Board of Veterinary Medical Examiners  
3810 Medical Parkway, Suite 119  
Austin, Texas 78756  
512/458-1183



## Education/Training

- \* graduation from a reputable, approved school or college of veterinary medicine

For a listing of schools, CONTACT --  
Texas Board of Veterinary Medical Examiners

## Working Conditions

- \* may travel in rural areas
- \* long and irregular working hours
- \* may be exposed to health hazards

## Career Opportunities/Employment Outlook

Most veterinarians are in private practice specializing in either domestic animals or livestock. Some are employed by government agencies such as the United States Department of Agriculture or the Public Health Service. Other employers of veterinarians are colleges of veterinary medicine, research laboratories, zoos, animal food companies and large livestock farms. Usually veterinarians in urban areas specialize in small pets; those in rural areas treat farm animals; and small town veterinarians engage in general practice.

The outlook for veterinarians in Texas is very good. There was an average annual employment of 200 in 1978; this is expected to increase to 400 by 1985.

The average salary for beginning veterinarians in Texas is \$23,000.

For more information on a career in veterinary medicine, CONTACT --  
Texas Veterinary Medical Association  
612 Scarbrough Building  
Austin, Texas 78701  
512/472-4224

## At a Glance . . .

postsecondary schooling?	YES
minimum age requirement?	YES, over 18
examination required?	YES
employment outlook?	VERY GOOD

## AIR CONDITIONING CONTRACTOR

NO D.O.T.

Air conditioning contractors work to keep indoor air at the proper temperature, humidity, cleanliness and circulation for human comfort. Persons who design, install, construct, maintain, service, repair or modify any heating, ventilating or air conditioning system must be licensed beginning September 1, 1986, under a law passed by the 68th Legislature in 1983. This requirement does not apply to those who work on portable or self-contained, ductless units, or to certain other persons who work on air conditioning systems. Licenses, effective for three years, will be issued to persons who: are 18 years or older; have 3 years practical experience or a degree in air conditioning engineering or mechanical engineering and 1 year experience; and show evidence of required insurance coverage.

**Licensing Agency** (Senate Bill 642, 68th Legislature)  
Texas Department of Labor and Standards  
Post Office Box 12157  
Austin, Texas 78711  
512/475-4229

## BOXING PROMOTER

NO D.O.T.

Boxing promoters arrange, advertise, or conduct boxing or wrestling contests, matches, or exhibitions.

The annual license fee ranges from \$20.00 to \$300.00, depending on the size of the community.

**Licensing Agency** (VACS 8501-1)  
Texas Department of Labor and Standards  
Post Office Box 12157  
Austin, Texas 78711  
512/475-4229

## FIRE SYSTEM INSTALLER

NO D.O.T.

Two new laws from the 68th session of the Texas Legislature regulate persons who install or service fire alarms, extinguishers and sprinkler systems. Persons who service portable fire extinguishers or service fixed fire extinguisher systems, must obtain a certificate of registration. Each fire alarm installation superintendent must pass an examination and obtain a license for an annual fee of \$100. Persons who manage fire sprinkler businesses must pay \$50.00 to take an examination, and \$100.00 for an annual license.

**Licensing Agency** (Senate Bills 234 and 353, 68th Legislature)  
State Fire Marshal  
State Board of Insurance  
1110 San Jacinto  
Austin, Texas 78786  
512/475-4203

## INTERPRETER FOR THE DEAF

D.O.T. 137.267

The Texas Commission for the Deaf maintains a registry of persons who interpret for the deaf. Only persons designated as qualified by the Commission may interpret in court and formal governmental proceedings under Texas law. The Commission's state interpreter certification program offers five levels of certification, with fees ranging from \$5.00 to \$15.00. For the lowest level, Level I, the Commission accepts testing by the Texas Society of Interpreters for the Deaf. For all higher levels, it accepts the certification of the national Registry of Interpreters for the Deaf.

**Licensing Agency** (Human Resources Code 81.007)  
Texas Commission for the Deaf  
Post Office Box 12904  
Austin, Texas 78711  
512/475-2492

## IRRIGATOR

D.O.T. 851.383

Irrigators sell, design, install, or service irrigation systems connected to private or public water supply systems. Installers perform the actual connection to the water supply. An examination is required.

The annual license fee is \$50.00 for irrigators and installers.

**Licensing Agency** (VACS 8751)  
Texas Board of Irrigators  
Post Office Box 12337  
Austin, Texas 78711  
512/475-8161

## MIDWIFE, LAY

NO D.O.T.

Midwives assist in normal childbirth. They may not administer any prescription drugs without a physician's supervision, or use any surgical instruments or techniques. Lay midwives are required, beginning September 1, 1983, to identify themselves in December of each year to the county clerk of each county in which they practice. The Department of Health will maintain a roster of all persons identified as practicing lay midwifery. Midwives must present a disclosure form telling each client the procedures they may and may not perform, whether they have arrangements with local physicians for childbirth emergencies, and whether they have passed an optional examination given by the state Lay Midwifery Board. The Board will establish a training course and manual, and prepare a final test, which will require a fee of \$25.00. Persons identified as lay midwives may not use any title implying they are "registered" or "certified." This law does not apply to certified nurse-midwives or other licensed health professionals, childbirth instructors who do not participate in births, or any person assisting in an emergency childbirth.

The Department of Health has been mandated to study the practice of lay midwifery and any training and examinations it institutes, and report to the 71st Legislature convening in 1989.

**Licensing Agency** (Senate Bill 238, 68th Legislature)  
Texas Lay Midwifery Board  
Texas Department of Health  
1100 W. 49th Street  
Austin, Texas 78756  
512/458-7531

## PAWNBROKER

D.O.T. 191.157

Pawnbrokers lend money on the security of pledged goods, or purchase personal property on the condition that it be redeemed, or repurchased, by the seller for a fixed price at a fixed time. They charge a finance charge, which must be disclosed to the consumer at the time of the transaction. If goods are not redeemed, they become the pawnbroker's property after a specified time. In Texas, pawnbrokers must have good moral character and net assets of at least \$75,000 for each shop to be operated. They may not have been convicted of any crime involving moral turpitude, including theft, fraud or forgery. Fees are \$500 for the first license, \$100 annual renewal fee, and bond up to \$5,000 may be required. Pawnshop employees also must be licensed at a fee of \$25 for the first license and \$10 for annual renewal.

**Licensing Agency** (VACS 5069-51.03)  
Consumer Credit Commissioner  
1011 San Jacinto, 3rd Floor  
Austin, Texas 78786  
512/475-2111

## PESTICIDE APPLICATOR

D.O.T. 389.684

Structural pest control applicators use, or supervise the use of, any restricted or state limited-use pesticide, including those used for pest, termite, insect, or weed control.

The annual license fee is \$20.00 for applicators, and \$75.00 for businesses.

**Licensing Agency** (VACS 135b-6)  
Structural Pest Control Board of Texas  
1300 East Anderson Lane, C-250  
Austin, Texas 78751  
512/454-3617

## PUBLIC WEIGHER

D.O.T. 168.267

Public weighers issue a certification of weight upon which sales transactions of a commodity are based. They may be appointed by the Texas Department of Agriculture on a state or county-wide basis; appointed by a county as deputies; or elected in a county.

The annual license fee may not exceed \$25.00 for a county public weigher, or \$100.00 for a state public weigher.

**Licensing Agency** (Agriculture Code 13.255-262)  
Texas Department of Agriculture  
Stephen F. Austin Building  
Austin, Texas 78701  
512/475-6577

# APPRENTICESHIP IN TEXAS

As practiced today in the United States, apprenticeship can be defined as training for occupations which require a wide and diverse range of skills and knowledge, as well as maturity and independent judgment. It involves planned, day-to-day, on-the-job training and experience under proper supervision, combined with technical studies in subjects related to the trade.

There are over 700 apprenticeable occupations in which the participant trains under the direction of experienced craftworkers. These programs are conducted by employers, often jointly with labor unions. The apprentice gains practical experience as a worker on the job -- possibly in a factory, laboratory, office, or at a construction site. Related classroom instruction is often provided in State-supported schools or colleges, or privately-owned training facilities. The apprenticeship periods last from 1 to 6 years, with most trades requiring 3 to 5 years of organized training and instruction. Apprentices are paid by their employers while they learn -- usually at progressive rates from a starting wage of about half the skilled craftworkers' rate, to 90% of full pay near the end of the apprenticeship. A certificate of completion is given by the Bureau of Apprenticeship and Training of the U.S. Department of Labor when the required training has been completed.

A few of the skilled trades in which apprentices are found are automotive mechanic, butcher, most of the building and construction trades, compositor, electronic technician, pattern-maker, machinist, optical technician, lithographer, and medical and dental technician.

To be eligible for apprenticeship programs, men and women must be at least 16 years old, physically able to do the work required, and have a high school diploma or an equivalency certificate.

In Texas, governments, industry, labor unions, non-union organizations, and the education system are working together to produce skilled craftworkers. The Bureau of Apprenticeship and Training helps industries set up programs, registers programs which meet their standards, and certifies apprentices who have completed training. The regional offices of this agency maintain files of programs available to prospective job seekers in the area.

In 1977 the Texas Legislature passed the Texas Apprenticeship Law (H.B. 788), which is now Chapter 33 of the Texas Education Code. State funds have been appropriated to fund apprenticeship related, preparatory, and supplementary instruction in trades which have been certified as apprenticeable occupations by the Bureau of Apprenticeship and Training. Public institutions, which have contracts with apprenticeship committees, may use the money to supplement the cost of related instruction. Coordination of activities and distribution of funds under Chapter 33 are developed by the Apprenticeship and Training Advisory Committee (ATAC). The ATAC serves as an advisory committee to the State Board of Education. The Texas College and University Systems' Coordinating Board funnels state funds for apprenticeship-related instruction to postsecondary institutions.

There are currently nearly 800 apprenticeship programs in Texas, with over 17,000 apprentices in training. Training programs are especially rich in areas of heavy industrial employment. Houston is a good example of a well-developed region.

For more information, contact the Bureau of Apprenticeship and Training office in your region, or the Texas Education Agency, at the following locations:

Austin

Dan Lowe, Coordinator  
Apprenticeship and Training  
Texas Education Agency  
201 East 11th Street  
Austin, Texas 78711  
512/834-4194

Fort Worth

John Piekarski  
819 Taylor Street, Room 908A  
Fort Worth, Texas 76102  
817/334-3486

Beaumont

Frank Herring  
300 Willow Street, Room 324  
Beaumont, Texas 77701  
713/839-2571

Houston

Claude Gray, Vernon Coleman  
2310 LaBranch, Room 2102  
Houston, Texas 77004  
713/750-1696

Dallas

Raymond Federle  
1403 Slocum, Suite 306  
Dallas, Texas 75207  
214/767-1361

Lubbock

Kenneth Lamkin  
1205 Texas Avenue, Room 422A  
Lubbock, Texas 79401  
806/762-7650

El Paso - temporarily serviced by:

Ruben Dominguez  
505 Marquette, NW  
Albuquerque, New Mexico 87102  
505/766-2398

San Antonio

Carmen D. Lorea  
727 E. Durango, Room B414  
San Antonio, Texas 78206  
512/229-6230

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