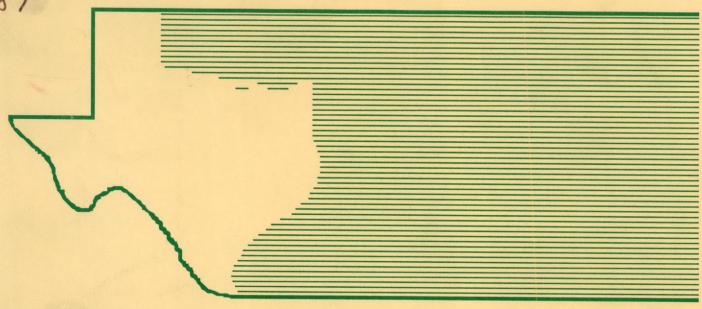


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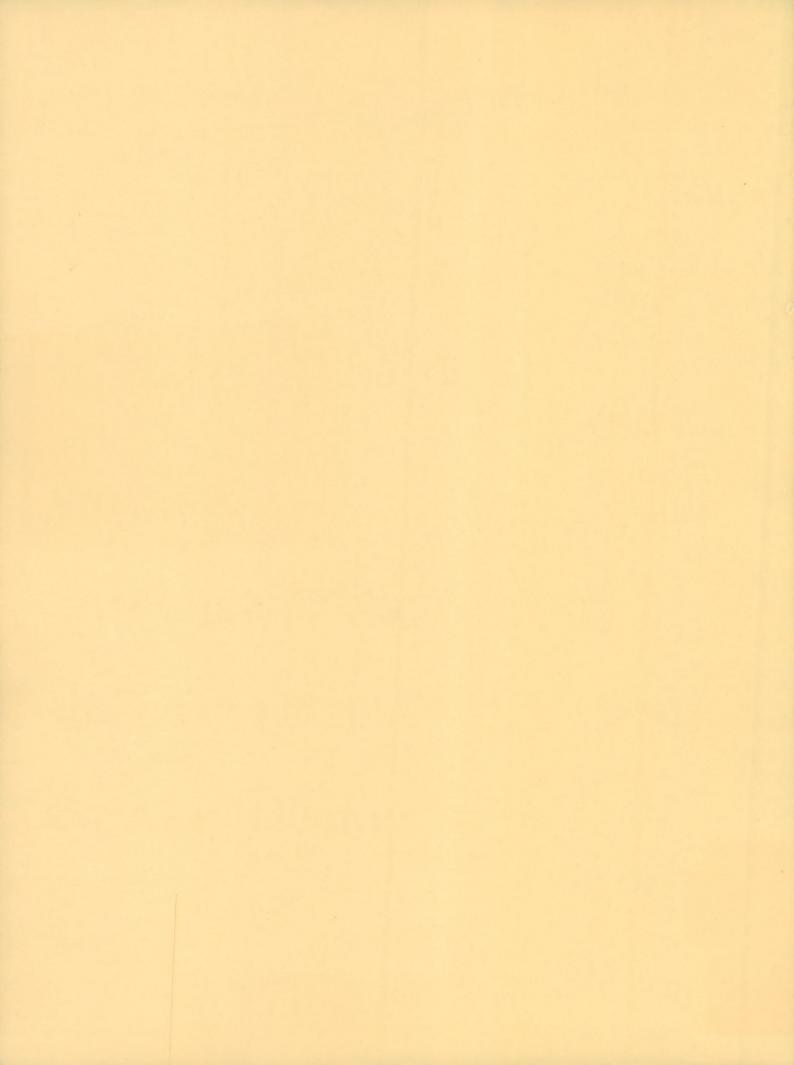
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**Directory** 

of Licensed Occupations
and Apprenticeship Program
Contacts in Texas

R VERNMENT PLICATIONS

1987 02 50.5 Lb **Fourth Edition** 



# Directory of Licensed Occupations and

# **Apprenticeship Program Contacts**

in

Texas

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MUGOVERNMENT PUBLICATIONS

Fourth Edition

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

# Texas State Occupational Information Coordinating Committee

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12<sup>th</sup> and Trinity Streets

# 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. We offer this fourth edition in an effort to keep the Directory as current, accurate, and useful as possible. It is the intent of the Committee to re-publish the Directory after each legislative session.

This Directory provides up-to-date, minimum requirements for professions and occupations licensed, registered, or certified 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. This Directory will be useful to students, counselors, and others who are looking for 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 70<sup>th</sup> Texas Legislature. Several federal government and commercial publications were also used. Employment figures, projections, and salary information were taken, when available, from the Texas Higher Education Coordinating Board publication, *Postsecondary Educational Supply and Occupational Demand in Texas* and from the Texas Employment Commission publication, *Texas Job Outlook 1990.* Information also came from professional or occupational associations, or from experienced practitioners. Occasionally, only national figures and trends could be found.

Terms used to describe the 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 Toni Dean and Jake Woodman, coordinators of the Employment and Training Division of the Texas Education Agency. 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.

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

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Accountants compile, analyze, and prepare financial reports for individuals and businesses. They specialize in auditing, tax accounting, management consulting, 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 certain business decisions. Management consultants offer advice on a variety of matters, such as revising accounting systems and recommending data processing systems. 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 six months, or reside in Texas for 90 days
- · at least 18 years of age
- good moral character
- · three letters of reference
- · specialized education and training
- · transcripts required

#### 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 78752-3892 512/450-7070

- two years college study, including at least 20 hours accounting or related subjects, and six years experience in accountancy; OR
- bachelor's degree with 30 hours of accounting and 20 hours of related business courses, plus two years experience in accountancy
- master's degree with 30 hours of accounting and 20 hours of related business courses, plus one year of experience in accountancy
- · continuing education required for annual license renewal

# 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 career paths within the field of accountancy: public management, government accounting, and internal auditing. Public accountants own or work for independent accounting firms. Management accountants handle their employer's financial records, usually in large firms. Government accountants audit government agencies, businesses, and individuals whose dealings are subject to government regulations. Internal auditors evaluate their firm's financial and management systems to protect against fraud. They also evaluate the company's operations in terms of efficiency, effectiveness, and compliance with laws and regulations. Most accountants are employed as management accountants; about 10% are self-employed. A small number are employed in business and professional schools. Most accountants work in large urban areas where major industries are located.

The demand for accountants is expected to rise through the mid-1990's since they play key roles in the management of all types of businesses. In Texas, the outlook for accountants is very good. In 1982, 69,900 accountants were employed. The projected figure for 1990 is 91,500.

Beginning salaries in Texas average \$19,000 to \$24,000 for college graduates.

#### For more information on a career in accountancy, CONTACT:

Texas Society of Certified Public Accountants 1421 West Mockingbird Lane, Suite 100 Dallas, Texas 75247 214/689-6000

# AT A GLANCE . . .

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook?

Yes Yes, over 18 Yes Very Good ARCHITECT D.O.T. 100.061

#### JOB DESCRIPTION

Architects provide professional design services to clients who are planning a building project. Their work includes everything from preliminary design to the 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. Structures designed by architects range from airports to private homes. They also design multi-building complexes such as urban renewal projects, college campuses, and industrial parks. Along with structural design, architects are involved in selecting building sites, preparing cost and land use studies, and conducting long-range land development plans. Specializations within the profession include landscape architecture, urban planning, building appraisal, and contract negotiation.

# JOB REQUIREMENTS

- talent for design work
- · creative mind
- understanding of business principles

# LICENSE REQUIREMENTS (VACS 249a) (22 TAC 1)

· specialized education and training

#### Examination

- · written
- · site planning and design test
- · written explanation of exam available from the Board

# 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

- · \$260.00 or fee prescribed by Board for examination
- \$ 10.00 for application
- \$ 40.00 for annual renewal

# For more information on icensing requirements, CONTACT:

Texas Board of Architectural Examiners 8213 Shoal Creek Boulevard, Suite 10 Austin, Texas 78758-7589 512/458-1363

- bachelor's degree in architecture, plus three years experience in the office of a registered architect; OR
- · other combinations of eight years experience and education
- · table of equivalents for education and experience available from the Board

# For a listing of schools, CONTACT:

Texas Board of Architectural Examiners

# **WORKING CONDITIONS**

- · outdoor site visitations
- · travel may be required
- · stress in meeting deadlines
- · long hours not uncommon

# 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 increasing construction. In Texas, the average annual employment for architects is expected to increase from 7,400 in 1982 to 8,800 in 1990. 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 1400 Norwood Towers Austin, Texas 78701 512/478-7386

# AT A GLANCE ...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook?

Yes, 4-5 years No Yes Balanced

Athletic trainers have the responsibility of maintaining the maximum physical fitness of their athletes. Under the advice and consert of a physician, athletic trainers carry out the practice of injury prevention, physical rehabilitation, and first aid. They use various methods for preventing and treating injuries such as diet, exercise, massage, heat, cold, light, sound and electricity. They understand the interaction of muscles, joints and bones within the body, and apply this knowledge to training procedures and injury treatment.

# JOB REQUIREMENTS

- manual dexterity
- · physical stamina
- · understanding and sympathy
- · tact and resourcefulness

# LICENSE REQUIREMENTS (VACS 4512d) (25 TAC 313)

· specialized education and 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

- \$50.00 for license
- \$40.00 for annual renewal

# For more information on licensing requirements. CONTACT:

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

· college degree meeting athletic training curriculum requirements; OR

 degree or certificate in physical therapy and completion of basic athletic training course, plus a two-year apprenticeship; OR

 degree in corrective therapy with at least a minor in physical therapy or health, plus two years apprenticeship or other requirements established by Board

· completion of a cardiopulmonary resuscitation (CPR) course

 completion of a basic Red Cross first aid course or emergency care attendant training or emergency medical technician training

12 hours of continuing education required every three years

· minimum of 600 hours apprenticeship per academic year for a minimum of three years

# 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; others may teach physical education or related subjects. There is a greater need for athletic trainers in larger communities or college towns than in rural districts. Cities with professional sports franchises employ athletic trainers. 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 906 W. Illinois Midland, Texas 79701 915/682-7367

# AT A GLANCE ...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook?

Yes, four years No Yes Balanced ATTORNEY D.O.T. 110.107

# JOB DESCRIPTION

Attorneys may be thought of as the link between the legal system and society. They interpret the laws pertaining to each client's situation. Attorneys must be well-versed in the current status, purpose, and past application 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. Within the legal profession, there are many specializations ranging from legal aid counselors to judgeships. 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

# LICENSING REQUIREMENTS (VACS 304)

- U.S. citizen or permanent resident alien
- · 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

- · moral character and fitness investigation
- · criminal history investigation
- · 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
- · charged with fraud in any legal proceeding
- involved in civil litigation or bankruptcy proceedings that reasonably bear on applicant's fitness

#### Fees Not to Exceed

- \$150.00 for examination
- \$150.00 for filing of Declaration of Intention to Study Law

# For more information on licensing requirements, CONTACT:

Board of Law Examiners Post Office Box 13486 Austin, Texas 78711-3488 512/463-1621

- · 90 semester hours of pre-law training with at least a "C" average
- · graduation from an ABA-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; others may specialize in such areas as trial work, criminal law, wills, trusts, contracts, or international law. Attorneys with a number of years of experience may become judges. The best locations for beginning attorneys starting private practice are small towns or suburban areas. Attorneys working in large corporations or government agencies usually reside in urban areas.

In 1982, the average annual employment for attorneys in Texas was 24,850. In 1990, this figure is projected to be 28,800. 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 \$14,000 to \$30,000 per year. Employers will continue to be selective in their hiring practices. To a great extent the prestige of the school attended, grades, and class standing all affect beginning salary and job availability.

# For more information on a career in law, CONTACT:

State Bar of Texas Post Office Box 12487 Austin, Texas 78711 512/463-1400

# AT A GLANCE . . .

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook?

Yes, 5-6 years Yes, over 18 Yes Balanced AUCTIONEER D.O.T. 294.257

# 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 members of 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
- \$5,000 surety bond

# Associate Auctioneer:

- United States citizen or legal alien
- · employed by licensed auctioneer

#### Examination

- · written or oral knowledge of auction business and related laws
- · study materials furnished

# Restrictions on Licensina

- · conviction of a felony or crime involving moral turpitude
- · 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 512/463-5521

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

# **WORKING CONDITIONS**

- · may work odd hours
- · may involve some travel

# CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Auctioneers sell many 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 very good, 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 Pete Bond Route 2, Box 30A Edinburg, Texas 78539 512/383-3092

# AT A GLANCE ...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook?

No Yes, over 18 Yes Very Good BARBER D.O.T. 330.371

# JOB DESCRIPTION

Barbers cut, style, or color hair to each customer's specifications. Other services performed include shaves, scalp treatments, and facials. They are skilled in the use of equipment such as scissors, razors, clippers, curling irons and hand dryers. Barbers must be conscious of shop cleanliness and keep all tools sterilized to prevent the spread of disease. Some barbers sell lotions, tonics, and other cosmetic supplies.

# JOB REQUIREMENTS

- · good communication skills, understanding and patience with customer
- finger dexterity
- · eye to hand coordination
- · good physical stamina

# LICENSE REQUIREMENTS

(VACS 8407a) (22 TAC 51.51)

A Barber license authorizes its holder to practice all phases of barbering. An additional license is required for instructors. Specialty licenses are available for manicurists, wig specialists, barber technicians and teachers.

- · at least 16 years of age
- · specialized education and/or training
- · health certificate
- · physician's statement certifying good health

# 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 related to barbering

#### Fees Not to Exceed

- \$10.00 for examination
- \$60.00 for license
- \$60.00 for bi-annual 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

- 1,500 hours in not less than nine months at a barbering school
- · practical experience during training
- · 150 hours of instruction for manicurist
- · 300 hours of instruction for wig specialist

# For a listing of schools, SEE:

Directory of Schools Certificated Under Texas Proprietary School Act

# WORKING CONDITIONS

- · clean, pleasant surroundings
- · may work long hours
- · work requires standing

# CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Barbering as a career offers variety and flexibility. It is a people-oriented business and many barbers are active in community service. When the trend toward hair-styling began to grow, barbers became more proficient at styling in addition to being skilled in conventional grooming techniques.

In 1982, annual employment of barbers in Texas was 10,300; the projected employment figure for 1990 is 11,950. The outlook for barbers is balanced, with supply and demand about equal. Some improvement in employment outlook is expected by 1990.

Barbers' salaries vary from \$200.00 to \$700.00 per week depending on location, salesmanship, and personal goals. Many barbers prefer to become shop owners and some prefer the commission system without ownership of the shop. Some will elect to become instructors at barber schools.

# For more information on a career in barbering, CONTACT:

- · Any accredited barbering school
- The State Board of Barber Examiners 1300 E. Anderson Lane, Bldg. C, Suite 275 Austin, Texas 78752 512/835-2040

# AT A GLANCE ...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Yes Yes, over 16 Yes Balanced

# CHILD CARE ADMINISTRATOR

#### 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, ensuring that the children are offered appropriate activities for their development, education and/or therapy. The administrator may have an ownership interest in the facility and may share duties with other people.

# JOB REQUIREMENTS

- · interest in welfare cf 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
- · medical information, transcripts, and references
- 15 hours of acceptable continuing education required for renewal

#### Examination

- · demonstrate 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
- \$50.00 for license
- · \$50.00 for biennial renewal

# For more information on licensing requirements, CONTACT:

Texas Department of Human Services Child Care Administrators' Licensing 550-W Post Office Box 2960 Austin, Texas 78769 512/450-3255

- one year experience in management or supervision of child care personnel and programs, AND
- · 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 four years experience; OR
- · high school diploma or equivalent and six years experience

# For a listing of schools, SEE:

Directory of Schools Certificated Under Texas Proprietary School Act

# or CONTACT:

Texas Department of Human Services

# 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 competitive. Entry-level salaries range from about \$24,000 to about \$28,000.

# 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? Minimum age requirement? Examination required? Employment outlook?

Yes No Yes Competitive

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, ultrasound, massage, light, diet, water, exercise, and rest; 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, including Texas law and Board rules
- practical
- license granted with only a practical examination if candidate holds a certificate from the National Board of Chiropractic Examiners

# Restrictions on Licensing

- conviction of a felony, or conviction of a crime involving moral turpitude or involving the obtaining of an abortion
- grossly unprofessional conduct
- · deception or fraud in practice or advertising
- · intemperance or drug addiction

#### Fees Not to Exceed

- \$ 50.00 for application
- \$120.00 for written and practical examination
- \$100.00 for practical examination only
- · \$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

- 60 semester hours of acceptable health science college courses at the undergraduate level 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 two days per 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 to form a clinic. Studies show that most chiropractors locate in small towns with populations of fewer than 50,000.

In 1982, the average annual employment of chiropractors in Texas was 1,150. By 1990, this figure is expected to increase to 1,300. As the practice of chiropractic medicine gains wider acceptance by the public and insurance carriers, the employment outlook will continue to be very good. The salary for many 1984 graduates was over \$30,000.

For more information on a career in chiropractic medicine, CONTACT:

Texas Chiropractic Association 6448 Highway 290 East, Suite F-106 Austin, Texas 78723 512/454-4551

# AT A GLANCE . . .

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook?

Yes, six years Yes, over 18 Yes Very Good

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 to be an instructor. Specialized, more limited certificates are available in such specialties as manicuring, shampooing, hair weaving, 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

- \$25.00 for examination/student permit
- \$25.00 for license
- \$25.00 for biennial renewal
- \$25.00 for limited specialty certificate

# For more information on licensing requirements, CONTACT:

Texas Cosmetology Commission 1111 Rio Grande Austin, Texas 73701 512/463-5540

- · 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
- · clean, pleasant surroundings

# 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. About one-half of all cosmetologists operate their own businesses; about two-fifths work part-time. 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 1982 was 32,000; the projected employment figure for 1990 is 38,500. The outlook for cosmetologists is balanced and will remain about the same through 1990.

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 \$9,000 to \$13,000. Earnings depend on size and location of the salon, patrons' tipping habits, competition from other salons, and the cosmetologist's ability to attract and hold regular customers.

# 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? Minimum age requirement? Examination required? Employment outlook? Yes, after 7th grade Yes, over 16 Yes Balanced

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 work in elementary and secondary schools.

#### JOB REQUIREMENTS

- · respect and concern for the individual
- · communication skills
- · emotional stability

# LICENSE REQUIREMENTS (VACS 4512g) (22 TAC 681)

- · 18 years of age
- · specialized education and training

#### Examination

- · written examination; OR
- · any other examination prescribed by the Board

# Restrictions on Licensing

- · violation of ethics or law regarding counselors
- · commitment to mental institution
- conviction of a felony or misdemeanor if crime relates to duties and responsibilities of a professional counselor
- · abuse of alcohol or drugs

#### Fees Not to Exceed

- \$25.00 for application
- \$30.00 for examination
- \$36.00 for license
- \$25.00 for specialty designation
- \$30.00 for specialty exam
- \$15.00 for annual renewal (without specialty)
- \$25.00 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 78754-3183 512/458-7511

- · a graduate degree from an accredited university
- completion of planned graduate program of 45 semester hours in counseling, including 300 clock hours of supervised practicum approved by Board; AND
- · 24 months or 2,000 hours supervised experience
- 75 clock hours of continuing education during each 3-year period required for license renewal

# 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 in private practice, state agencies, hospitals, college campus counseling centers, career planning and placement, in rehabilitation, or elementary and secondary schools. Most counselors work in the public sector, which is not expected to grow significantly through the mid-1990's. Most opportunities will result from the need to replace counselors who leave the field. Job opportunities may be best in community and social service agencies and in private business and industry.

The outlook for professional counselors is balanced, with supply and demand about equal. Beginning salaries average from \$15,000 to \$25,000, depending on setting.

# For more information on a career in counseling, CONTACT:

Texas Association for Counseling and Development 316 West 12th Street, Suite 402 Austin, Texas 78701 512/472-3403

#### AT A GLANCE ...

Postsecondary schooling?

Minimum age requirement?

Examination required?

Employment outlook?

Yes

Yes

Yes

Balanced

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, creating the official court record of a trial or other proceeding. Shorthand reporters are often employed by a court, but also may work for attorneys and state and federal agencies. Some also 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

(Government Code 52.001)

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

# Examination

- · oral -- dictation/transcribing
- written -- grammar, punctuation, legal and medical terminology, and Texas Court Procedures

# Restrictions on Licensing

criminal offense involving moral turpitude, fraud or corruption

#### Fees Not To Exceed

- \$ 85.00 for application
- \$ 75.00 for oral and written examination
- \$100.00 for biennial license renewal

# For more information on licensing requirements, CONTACT:

Court Reporters Certification Board Post Office Box 13131 Austin, Texas 78711-3131 512/463-1630

 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 excellent. The average salary for the 1984 graduates of one institution was \$24,000. Earnings may vary depending on speed, education, experience, and geographic location. Earnings are generally higher in large cities than in rural areas.

# For more information on a career in court reporting, CONTACT:

Texas Shorthand Reporters Association 940 E. 51<sup>st</sup> Street Austin, Texas 78751-2241 512/454-8626

# AT A GLANCE ...

Postsecondary schooling?	No
Minimum age requirement?	Yes
Examination required?	Yes
Employment outlook?	Excellent

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, 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 (V

(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
- · proof of training in cardiopulmonary resuscitation

# 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 8317 Cross Park Drive, Suite 400 Austin, Texas 78754-5124 512/834-6021

- graduation from an accredited school or college of dentistry or dental hygiene with not less than two terms of eight 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 3,800 in 1982. That figure is projected to rise to 5,000 by 1990. 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. Beginning salaries in Texas average \$15,000 to \$16,000.

# For more information on a career in dental hygiene, CONTACT:

Texas Dental Hygienists Society c/o Anita Dockery 206 Howerton San Antonio, Texas 78223 512/221-3526

#### AT A GLANCE...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Yes, 2-4 years Yes, over 18 Yes 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. Orthodontics and oral surgery are the two most common areas of specialization 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

- · written, oral, or practical demonstration, or combination
- · iurisprudence -- Texas law
- · 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 8317 Cross Park Drive Suite 400 Austin, Texas 78754-5124 512/834-6021

- · four terms of eight months each at an accredited dental college
- two terms of dental college must be practical experience
- training in cardiopulmonary resuscitation (CPR)

# For a listing of schools, CONTACT:

Texas Board of Dental Examiners

# **WORKING CONDITIONS**

- close physical contact with client
- · regular hours

#### CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Nine out of 10 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. The need for dentists is usually greatest in urban areas; however, in small communities dentists can rapidly develop a large clientele.

In 1982, the average number of dentists employed was 9,300; in 1990, it is expected to be 11,000. The employment outlook for dentists in Texas is balanced. There may be a decline in graduates from Texas dental schools through 1989; however, employment opportunities are expected to remain the same until then.

Salaries for beginning dentists in Texas are usually over \$30,000.

For more information on a career in dentistry, CONTACT:

Texas Dental Association 1946 South IH 35 Austin, Texas 78704 512/443-3675

# AT A GLANCE ...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Yes, 6-8 years Yes, over 21 Yes 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 or teach or conduct research.

#### JOB REQUIREMENTS

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

# LICENSE REQUIREMENTS (VACS 4512h)

· specialized education and training

#### Examination

· Board-approved competency examination administered by a national testing service

# Restrictions on Licensing

- · violation of licensing act
- · violation of Code of Ethics

#### Fees Not to Exceed

- \$30.00 for application
- \$24.00 for license
- \$24.00 annual renewal

# 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 78756-3183 512/458-7501

- bachelor's or graduate degree with major in human nutrition, food and nutrition, dietetics, or food systems management, 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**

vary depending on work setting (see below)

#### CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Over half of all dietitians work in hospitals, nursing homes and other health care facilities. Some dietitians work as consultants, while others may be employed by colleges, school systems, child care facilities and restaurants. Other jobs can be found in settings such as public health programs, community organizations, government agencies and the Armed Forces. An experienced dietitian may advance to assistant director or director of a dietetic department. Other avenues of advancement are teaching and research.

There were 2,300 dietitians employed in Texas in 1982. By 1990, there are expected to be 3,250. Outlook, as for many health professions, is very good. Beginning salaries averaged \$16,000 to \$18,000 for 1984 graduates with bachelor's degrees, and \$20,000 to \$22,000 for those with graduate degrees.

Yes

No

Yes

Very Good

# For more information on a career in dietetics, CONTACT:

Texas Dietetic Association 940 E. 51st Street Austin, Texas 78751 512/454-8626

#### AT A GLANCE...

Postsecondary schooling?
Minimum age requirement?
Examination required?
Employment outlook?

Professional engineers apply scientific and mathematical principles to practical, technical problems. They design machinery, products, systems and processes for efficient and economical performance. Some of the more than 25 major branches of engineering include aeronautic, chemical, civil, electrical, geological, mechanical, nuclear, and petroleum engineering.

## 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

#### Engineer

- \$50.00 for registration
- \$75.00 for examination
- \$45.00 for annual renewal

# Engineer-in-Training Certification

• \$15.00

# For more information on licensing requirements, CONTACT:

State Board of Registration for Professional Engineers Post Office Drawer 18329 Austin, Texas 78760 512/440-7723

Engineer:

- graduation from a Board-approved curriculum in engineering, and at least four years experience of active practice in engineering work; OR,
- graduation from an engineering or related science curriculum, and passage of an examination and eight years of active practice in engineering work
- responsible charge of engineering teaching may be construed as responsible charge of engineering work

Engineer-in -Training:

- graduation from a Board-approved engineering curriculum and passage of the Board's eighthour examination in the fundamentals of engineering, OR
- graduation from an engineering or related science curriculum and passage of the Board's eight-hour examination in the fundamentals of engineering

For a listing of schools, CONTACT:

Texas State Board of Registration for Professional Engineers

#### WORKING CONDITIONS

- · may work odd hours and overtime
- · may be required to travel and/or visit outdoor sites

#### CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Engineers are employed by government agencies, construction services, and educational institutions; more than half are employed by manufacturing industries. Experienced engineers may 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. The demand for engineering graduates in Texas is high. The employment outlook for engineers in Texas is competitive to excellent, depending on the branch of engineering. The average employment for 1982 was 94,450; the projected employment for 1990 is 139,950. Depending on the area of specialization, salaries for beginning engineers in Texas average from \$22,000 to \$30,000.

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? Minimum age requirement? Examination required? Employment outlook? Yes, four years No Yes

Competitive to Excellent

Fire protection personnel, or firefighters, are full-time, paid personnel employed by the state or by local governments. Their duties include fire suppression, inspection, arson investigation, marine fire fighting, aircraft crash and rescue, and training and education. In smaller communities an officer may have responsibility for any or all of these duties. In larger areas an officer is assigned to more specialized duties. Duties may include rescuing victims, administering emergency medical aid, ventilating smoke-filled areas, and salvaging the contents of a building. Firefighters may also drive ambulances, operate emergency rescue vehicles, and pilot fireboats.

#### JOB REQUIREMENTS

- · moral standards
- · minimum physica standards
- · emotional standards (required by some cities)
- · mental alertness
- · physical endurance

### LICENSE REQUIREMENTS (VACS 4413[35])

- · at least 18 years of age
- honorable military discharge (if applicable)
- · emotional and psychological health

#### Examination

- physical
- psychological
- · background
- · written

#### Restrictions on Licensing

- · conviction of a felony
- · violation of any rule or standard of the Commission
- · conviction of drug dependency or any illegal drug usage

#### Fees Not to Exceed

- \$20.00 license
- · \$20.00 annual renewal

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

Commission on Fire Protection Personnel Standards and Education 510 South Congress, Suite 406 Austin, Texas 78704 512/474-8066

 satisfactory completion of basic program of training in fire protection at a Commissionapproved or -operated school

### For a listing of schools, SEE:

Schools Certified by the Commission on Fire Protection Personnel Standards and Education

#### **WORKING CONDITIONS**

- · weekend and night duty (average 56-hour work week)
- · subject to call at any time in case of emergencies
- outdoor work
- · high risk of death or injury

#### CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Most new recruits are assigned to duty at a fire station. Nine out of ten firefighters work in municipal fire departments; the remainder working at federal or state installations, county fire departments, and airports. A few firefighters are employed by private companies. Three to five years experience is usually prerequisite to a promotion. A promotion to a higher level usually requires the acquisition of expertise in advanced firefighting equipment and techniques, building construction, emergency medical techniques, writing, public speaking, management and budgeting procedures, and labor relations. Advancement is achieved through written examinations, evaluation of job performance, and seniority.

In 1982 there were 14,400 firefighters employed in the state of Texas. By 1990, there will be 18,250, according to forecasts. Most of this growth should occur in small communities where career firefighters will replace volunteers. Little growth is indicated for large, urban fire departments.

Fire fighting is an attractive occupation because a high school education is sufficient (an increasing number of applicants to this field have some postsecondary education), it offers retirement and disability pensions, merit promotions, and relatively high earnings in some of the larger Texas cities. Salaries range from \$10,000 for entrance level to an average maximum of \$16,500. Some captains' salaries exceed \$35,000.

### For more information on a career in fire protection/fighting, CONTACT:

Texas State Association of Fire Fighters 1106 Lavaca, Suite 101 Austin, Texas 78701

### AT A GLANCE . . .

Postsecondary schooling? Yes
Minimum age requirement? Yes, 18
Examination required? Yes
Employment outlook? Balanced

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 recording and evaluating audiograms and taking ear-mold 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 six months, with one extension of an additional six months if necessary.

#### Examination

- · written, oral, and practical
- · testing hearing
- · taking of ear-mold 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 the 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 4800 N. Lamar, Suite 150 Austin, Texas 78756 512/459-1488

- · 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
- six hours of continuing education credit or re-examination required for license renewal

### **WORKING CONDITIONS**

- · indoors
- · office-like
- sanitary
- well lighted
- 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.

A trend toward hiring audiologists with master's degrees, however, will limit future opportunities for newcomers to the field and increase competition among those without audiology degrees. Hearing aid dispensers must work in a service area with a population of at least 30,000 in order to support their business. Currently, there are about 700 licensed dispensers in Texas and almost half have at least a master's degree.

Beginning hearing aid dispensers in Texas earn an average of \$16,000.

For more information on a career in hearing aid dispensing, CONTACT:

Texas Hearing Aid Association 222 N. Riverside Drive Ft. Worth, Texas 76111 817/831-0592

#### AT A GLANCE ...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? No Yes, over 18 Yes Competitive

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

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

State Board of Insurance 1110 San Jacinto Austin, Texas 78701-1998 512/463-6198

 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 very good. 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:

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

#### AT A GLANCE ...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook?

Yes Yes, over 18 Yes Very Good

Insurance agents sell policies to help protect individuals and businesses 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, and accident and health.

#### 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 the license. A 90-day temporary license is available for life, accident and health agents.

#### Examination

- · written
- study guide furnished

#### Restrictions on Licensing

- · conviction of a felony
- license obtained fraudulently
- misappropriation of insured's money
- misrepresentation of insurance policy

#### Fees Not to Exceed

- \$50.00 fcr application (nonrefundable)
- \$20.00 for examination
- \$50.00 for biennial renewal depending on type of license

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

State Board of Insurance 1110 San Jacinto Austin, Texas 78701-1998 512/463-6198

- · 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
- · may have evening and weekend hours

#### 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. An agent with both sales and leadership abilities may become a sales manager in a local office. A few agents advance to agency superintendent or executive positions. A combination real estate and insurance sales office is another possibility for advancement. Most agents specialize in life insurance, but a growing number offer both life and property-liability policies. Insurance agents may work either full- or part-time; about one agent in four is self-employed.

Because the demand for insurance is rising, the number of licensed agents is expected to increase. For 1990, the projected average employment figure in Texas is 28,850, up from 24,600 in 1982. The employment picture is very good, with definite improvement expected by 1990.

Salaries for insurance agents are usually paid as commissions on sales. Graduates with a certificate or associate degree in 1984 earned \$17,000 to \$19,000.

#### For more information on a career in insurance, CONTACT:

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

#### AT A GLANCE ...

Postsecondary schooling?

Minimum age requirement?

Examination required?

Employment outlook?

Yes

Yes, 18

Yes

Very Good

Interpreters for the deaf translate spoken forms of communication into sign language. They also interpret sign language of deaf individuals into oral or written language for hearing individuals or others not conversant in sign language. Qualified interpreters may use their skills in court or formal governmental proceedings. Interpreters are also used in many other situations ranging from health, vocational, educational, recreational and welfare activities. Interpreters act as a communication aid, but not as a counselor, personal representative, or advocate of either person's rights. Only persons designated as qualified by the Texas Commission for the Deaf may interpret in court and formal governmental proceedings under Texas law.

#### JOB REQUIREMENTS

- large vocabulary
- · concern for deaf incividuals

### LICENSE REQUIREMENTS (Human Resources Code 81.007)

specialized education or training

Examination

practical demonstration (5 levels)

Restrictions on Licensing

· none

Fees Not to Exceed

- \$10.00 for examination -- levels 1-4
- \$15.00 for examination -- level 5

For more information on licensing requirements, CONTACT:

Texas Commission for the Deaf Post Office Box 12904 Austin, Texas 78711 512/469-9891

- · formal post-secondary education; OR
- experience

### For a list of schools and programs, CONTACT:

Texas Commission for the Deaf

#### **WORKING CONDITIONS**

- · may travel
- · irregular hours

### CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Most interpreters work on a freelance basis and practice their skills as a side-line to another job. Prospects for freelance employment are usually better in large metropolitan areas. Opportunities for freelance interpreters in Texas is expected to increase as the awareness of service increases among the members of the deaf community. The employment outlook for Texas is very good. Successful, well-known, full-time interpreters may earn between \$15,000 and \$18,000. On an hourly basis, interpreters at the first three levels of certification make \$12.00 an hour. At the fourth and fifth levels of certification, interpreters make \$14.00 and \$16.00 an hour respectively.

For more information on a career in Interpreting for the Deaf, CONTACT:

Texas Commission for the Deaf Post Office Box 12904 Austin, Texas 78711 512/469-9891

AT A GLANCE...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Recommended No Yes Very Good LAND SURVEYOR D.O.T. 018.167

#### 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

- · written
- · covers surveying, math, surveying law, general fitness to practice
- · 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 7703 N. Lamar, Suite 304 Austin, Texas 78752 512/452-9427

- bachelor's degree, including 32 semester hours 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; OR
- · completion of a concentrated surveyor-in-training program approved by the Board

### 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, who leads the day-to-day activities of a survey crew. 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 1982 was 4,800, and the expected employment for 1990 is 6,550. The outlook for land surveyors is very good; 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?

Minimum age requirement?

Examination required?

Employment outlook?

Yes

Yes

Yes

Yes

Yes

Yes

#### LANDSCAPE ARCHITECT

#### 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
- \$210.00 for exam or fee prescribed by Board
- \$ 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

- 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 Jim Gray Ford, Powell & Carson 1138 East Commerce San Antonio, Texas 78205 512/226-1246

#### AT A GLANCE ...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? No (with experience) Yes, over 18 Yes Balanced

#### LAW ENFORCEMENT OFFICER

#### 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. Officers are expected to exercise their authority and control whether on or off duty.

#### JOB REQUIREMENTS

- · honesty
- · good judgment
- physical fitness
- · emotional stability

### LICENSE REQUIREMENTS (VACS 4413 [29aa])

- · U.S. citizen
- · 18 years of age
- honorable military cischarge, if applicable
- · 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 within the last two years
- conviction of a class A misdemeanor within the past 12 months
- · conviction of a class B misdemeanor within the past six months
- violation of any rule or standard of Commission
- · drug dependency or any illegal drug usage

#### Fees Not to Exceed

· none

### For more information on licensing requirements. CONTACT:

Commission on Law Enforcement Officer Standards and Education 1606 Headway Circle, Suite 100 Austin, Texas 78754 512/834-9222

- · high school diploma or equivalent
- completion of training operated or approved by Commission
- · weapons proficiency training and demonstration

### For a listing of schools, SEE:

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 to 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, officers may retire with a pension at a relatively young age and pursue a second career.

In 1982, there were 21,100 police detectives, officers and patrolpersons employed in Texas. By 1990, there will be 25,450, according to forecasts. Outlook is balanced, with some improvement predicted by 1990. Opportunities vary widely throughout the state. Beginning salaries average \$15,000 to \$16,000 in Texas.

#### For more information on a career in law enforcement, CONTACT:

Texas Commission on Law Enforcement Officer Standards and Education 1696 Headway Circle, Suite 100 Austin, Texas 78754 512/834-9222

#### AT A GLANCE ...

Postsecondary schooling? Yes
Minimum age requirement? Yes, 18
Examination required? Yes
Employment outlook? Balanced

Librarians serve as a link between the information seeker and information sources. They prepare the information and assist patrons in its use. In addition, librarians select materials, publicize services, perform research, and conduct programs within the community. County librarians, appointed by county commissioners courts for two years, 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) (13 TAC 5)

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

#### Examination

· none

#### Restrictions on Licensing

submitting false information on application

#### Fees Not to Exceed

none

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

Texas State Library and Archives Commission Post Office Box 12927 Austin, Texas 78711 512/463-6623

Grade III - valid for two years

· 30 semester hours at an accredited college or university; OR

· high school diploma or equivalent and 1,000 hours of paid or voluntary work experience in a library within the past five years, or a combination of education and experience

· for renewal, three semester hours at an accredited college or university, or 20 hours of other

continuing education activities

### 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 2,000 hours of paid or voluntary work experience in a library within the past five years, or a combination of education and experience
- · for renewal, three semester hours at an accredited college or university, or 20 hours of other continuing education activities

### Grade I - permanent

· fifth-year or higher degree 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. 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 competitive. Salaries for beginning librarians range from \$14,000 for those with a bachelor's degree to \$18,000 for an advanced degree.

### For more information on a career in library science, CONTACT:

Texas Library Association 3355 Bee Caves Road, Suite 603 Austin, Texas 78746 512/328-1518

#### AT A GLANCE...

Postsecondary schooling? Yes Minimum age requirement? No Examination required? No Employment outlook? Competitive

D.O.T. 334.374

#### MASSAGE THERAPIST

#### JOB DESCRIPTION

Massage therapists are health care professionals who manipulate soft tissues of the body for therapeutic purposes. These manipulations include stroking, kneading, percussion, compression, vibration, friction, and nerve strokes, and are administered by hand or with mechanical or electrical apparatus. Massage therapists also use oils, salt glows, heat lamps, hot and cold packs, and tub, shower or cabinet baths in their work. They do not diagnose or treat illness or disease.

#### JOB REQUIREMENTS

- manual dexterity
- · physical stamina
- · understanding and sympathy

### LICENSE REQUIREMENTS (VTCS 4512k, 25 TAC 141)

· specialized education and training

#### Examination

none

Restrictions on Licensing

conviction of felony or misdemeanor involving crimes related to prostitution or sexual offenses

#### Fees Not to Exceed

- \$50.00 for application
- · \$60.00 for annual registration

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

Advisory Council on Massage Therapy Texas Department of Health 1100 West 49th Street Austin, Texas 78756-3183 512/458-7512

- completion of a 250-hour course of instruction at a Texas Department of Health-approved massage therapy school; OR
- completion of a 250-hour course of instruction by a massage therapy instructor whose curriculum has been approved by the Department
  - · course work includes:
  - 125 hours Swedish Massage Therapy Techniques
  - 50 hours anatomy
  - · 25 hours physiology
  - · 25 hours hydrotherapy
  - · 20 hours health and hygiene
  - · five hours business practices and professional ethics

#### WORKING CONDITIONS

- · may work irregular hours
- flexible working hours (self-employed massage therapists)

#### CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Massage therapists are generally self-employed or employed by fitness centers, health spas, or chiropractors; some may work for private athletic clubs or organizations such as resorts, cruise ships, or beauty shops. Some massage therapists may receive physician referrals. Larger, urban areas currently offer a greater potential for employment, but rural areas are experiencing a growing demand for massage therapists. The outlook for the profession is balanced.

### For more information on a career in massage therapy, CONTACT:

American Massage Therapy Association c/o Lajuana Lamb Rt. 3, Box 330-A Fredricksburg, Texas 78624 512/997-2074

#### AT A GLANCE. . .

Post-secondary schooling?

Minimum age requirement?

Examination required?

Employment outlook?

Yes

No

Balanced

#### MORTICIAN/EMBALMER

#### 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.

D.O.T. 187,167: 338,371

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

#### JOB REQUIREMENTS

- tact and understand no
- 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 (embalmers only)

### Restrictions on Licensing

- · conviction of a felony or misdemeanor related to the practice of embalming or funeral
- · deceptive advertising practices
- misconduct in providing services and merchandise
- · misrepresentation of credentials
- · drug addiction

#### Fees Not to Exceed

- · \$25.00 for apprenticeship registration
- \$50.00 for license
- \$50.00 for biennial renewal

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

Texas Funeral Service Commission 8100 Cameron Road, B-550 Austin, Texas 78753 512/834-9992

- · graduation from an accredited school or college of mortuary science
- apprenticeship of 12 consecutive months to a licensed funeral director or embalmer

### 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 950 embalmers employed in Texas in 1982. By 1990, this figure is expected to be 1,150. The employment outlook for funeral services personnel in Texas is excellent, with definite improvement by 1990. 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? Minimum age requirement? Examination required? Employment outlook? Yes, over 18 Yes Excellent

Licensed vocational nurses are trained in a Board-approved education program to function as members of the health care team in the provision of care to the sick, in rehabilitation, and in the prevention of illness. They may administer prescribed medications, change sterile dressings, monitor vital signs, and assist clients with activities of daily living. Most LVNs care for clients with non-life-threatening conditions or illnesses.

#### JOB REQUIREMENTS

- emotional stability
- · problem-solving ability
- · concern for human welfare

### LICENSE REQUIREMENTS (VACS 4528c) (22 TAC 235)

- · good physical and mental health
- · specialized education and/or training

#### Examination

written (national examination)

#### 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

- \$50.00 for application and examination
- \$20.00 for biennial renewal
- \$30.00 for reactivation from inactive status (plus applicable renewal fees)

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

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

· at least two years of high school education or GED equivalent

 completion of a course of not less than 12 months in an approved school of vocational nursing; OR

· at least two years of education in an approved school of professional nursing

 professional nurse graduates who have not been successful in passing the registered nurse examination are eligible for a license

### For a listing of schools, SEE:

Board of Vocational Nurse Examiners List of Approved Schools

#### WORKING CONDITIONS

- · may work under stress
- · may work odd hours
- · variety of employment settings

### CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Licensed vocational nurses may advance through on-the-job experience and/or additional formal education. Some colleges may give credit for vocational nursing education toward associate degree nursing education. LVNs may pursue a professional nursing degree as they continue to work part-time. In addition to hospitals, LVNs can find employment in a variety of settings including nursing homes, clinics, physicians' offices and private homes.

In 1982, 49,250 LVNs were employed, and an employment figure of 67,650 is projected for 1990. In 1987 approximately 71,000 LVNs were licensed in Texas. The employment outlook is considered good.

Salaries in Texas average \$12,000 to \$19,000.

### For more information on a career in vocational nursing, CONTACT:

Licensed Vocational Nurses Association of Texas 314 Highland Mall Blvd. Suite 321 Austin, Texas 78752 512/371-9100

#### AT A GLANCE . . .

Postsecondary schooling?
Minimum age requirement?
Examination required?
Employment outlook?

Yes Yes, over 18 Yes Good

Registered nurses diagnose and treat patient/client responses to actual and potential health care problems. Decision-making and problem-solving abilities about patients and patients' situations may be carried out independently or in collaboration with other health care providers. Employment settings are numerous and include acute-care and long-term care hospitals/facilities, clinics, out-patient settings, schools, industrial settings and patients' homes.

#### JOB REQUIREMENTS

- · good health and stamina
- · desire to serve people
- good judgment
- · ability to make decisions

### LICENSE REQUIREMENTS (VACS 4518) (22 TAC 217)

specialized education and training

#### Examination

- National Council Licensure Examination for Registered Nurses (NCLEX-RN)
- · verification of graduation from an accredited professional school of nursing

### 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

- \$200.00 for examination
- \$ 50.00 for annual renewal

## For more information on licensing requirements. CONTACT:

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

· graduation from an accredited program of professional nursing education

### For a listing of schools, 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. Experience and higher levels of education open opportunities for advancement in the following tracts: 1) clinical, 2) education, 3) administration, 4) research. Nursing opportunities are greater in rural areas, some big city hospitals, and certain specialty areas such as geriatrics.

The outlook for registered nurses in Texas is excellent. The 1982 employment figure of 62,900 is expected to increase to 86,050 in 1990. The 1987 employment figure is 72,383.

Salaries for beginning RNs range from \$18,000 to \$24,000.

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

Texas Nurses Association 300 Highland Mall Boulevard, Suite 300 Austin, Texas 78752 512/452-0645

#### AT A GLANCE ...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Yes, 2-4 years No Yes Excellent

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 (VTCS 4442d) (22 TAC 243)

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

#### Examination

- · suitability narrative
- · written and/or oral examinations
- · proof of education and/or training

#### Restrictions on Licensing

- · conviction of a felony or misdemeanor involving moral turpitude
- · gross negligence
- · license fraudulently obtained
- · intemperate use of alcohol or drugs

#### Fees Not to Exceed

- \$250.00 for application
- \$250.00 for biennial renewal

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

Texas Board of Licensure for Nursing Home Administrators 4800 North Lamar, Suite 355 Austin, Texas 78756 512/458-1955

- · bachelor's degree
- completion of a 200-hour, Board-prescribed curriculum in an accredited postsecondary institution
- · internship of 26 weeks in a licensed nursing home
- for renewal, 28 hours of continuing education every two years

#### For a listing of schools, 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 median salary for nursing home administrators in Texas is \$24,300, but salaries vary widely within a range from about \$10,000 to about \$40,000. 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 Health Care Association Post Office Box 4554 Austin, Texas 78765 512/458-1257

#### AT A GLANCE . . .

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Yes, over 18 Yes Balanced

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. Occupational therapists tend to work with a certain disability or age group. About three out of five work mainly with physically disabled people. Some work only with children, and others work exclusively with the elderly.

#### JOB REQUIREMENTS

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

### LICENSE REQUIREMENTS (VACS 8851) (40 TAC 361.1)

· specialized educat on 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

- \$10.00 for application (both levels)
- \$70.00 for license (therapist); \$50.00 for license (assistant)
- \$70.00 annual renewal (therapist); \$50.00 annual renewal (assistant)

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

Texas Advisory Board of Occupational Therapy Texas Rehabilitation Commission 118 East Riverside Drive Austin, Texas 78704 512/445-8368

Occupational Therapist:

 bachelor's or master's degree in occupational therapy or equivalent, and six months supervised field work

Occupational Therapy Assistant:

- · associate degree or certificate in occupational therapy and two months supervised field work
- · for both licenses, continuing education required for license renewal

#### 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. The largest number of jobs are in hospitals; other employers include nursing homes, home health agencies, community mental health centers, and outpatient clinics. Many work part-time, and a small but growing number are in private practice. Advancement is usually to supervisory or administrative positions, teaching or research. Employment opportunities are expected to grow with continued support for rehabilitation programs in school systems and schools for the handicapped. Average annual employment of occupational therapists in Texas was 1,050 in 1982. In 1990, the figure forecast is 1,600.

The employment outlook is very good; beginning salaries for 1984 graduates range from \$18,000 to \$20,000. Assistants' salaries range from \$9,000 to \$14,000.

### For more information on a career in occupational therapy, CONTACT:

Texas Occupational Therapy Association, Inc. 111 W. Anderson Lane, Suite D-204 Austin, Texas 78752 512/454-8682

#### AT A GLANCE . . .

Postsecondary schooling?

Minimum age requirement?

Examination required?

Employment outlook?

Yes

Yes

Yes

Yes

Yery Good

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 contact lenses and eyeglasses and make minor eyeglass repairs.

#### 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
- practical examination

### 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

- · 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 physical contact with clients

#### CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Licensed optometrists may begin practice as associates of established practitioners. Although the majority are self-employed, there is a trend towards partnership or group practices. After enough experience has been acquired, they may elect to begin their own practices or to specialize. Areas of specialization include working with children or the elderly, working with partially sighted persons, and working with contact lenses or vision therapy. 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 and will remain about the same through 1990. The employment figure for 1982 was 1,400, and the projected figure for 1990 is 1,600.

Beginning salaries for optometrists in Texas average \$27,000 to \$29,000.

### For more information on a career in optometry, CONTACT:

Texas Optometric Association 1016 La Posada, Suite 174 Austin, Texas 78752 512/451-8476 Texas Association of Optometrists 1011 E. 53 1/2 Street, Suite 201 Austin, Texas 78751 512 /458-9275

#### AT A GLANCE . . .

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Yes, six years Yes, over 21 Yes Balanced

### PESTICIDE APPLICATOR, CERTIFIED

### D.O.T. 389.684: 408.381

#### JOB DESCRIPTION

Certified pesticide applicators use, or supervise the use by licensed technicians, of any restricted or state limited-use pesticide. Using pesticides, applicators prevent, destroy, repel or mitigate pests. An applicator licensed through the Texas Department of Agriculture may apply pesticides to crops, forests, ornamentals, and other vegetation, treat seeds, or control aquatic pests. Applicators licensed through the Texas Structural Pest Control Board make inspections and identify infestations of pests in households, railroad cars, ships, docks, airplanes, or other structures, as well as in vegetation adjacent to structures or in parks, rights of way, etc. Certified applicators may perform and supervise the performance of commercial pest control activities. License categories are pest, termite, fumigation, lawn and ornamental, weed, and wood preservation.

### JOB REQUIREMENTS

· mechanical ability and manual dexterity

# LICENSE REQUIREMENTS (Agriculture Code 76.105) (VACS 135b-6) (22 TAC 593)

Certified Pesticide Applicator

· specialized education, training, or experience

\$5,000 surety bond or insurance policy covering activities (agricultural pest control)

 must have a business license or be employed by a licensed business in order to work commercially

#### Technician

· specialized training

· must be employed by a certified applicator

· contact Board for minimum insurance requirements

#### Examination

written and performance demonstration (agricultural pest control)

written (structural pest control)

 study materials available from the Department of Agriculture or the Structural Pest Control Board and Texas Agricultural Extension Service

Restrictions on Licensing

· conviction of a felony involving moral turpitude in the last five years

- pesticide recommendation or application inconsistent with the pesticide's label or other restrictions
- · operating in a faulty, careless, or negligent manner

Fees Not to Exceed

Agricultural Pest Control: \$10.00 for examination in each use category; \$100.00 annual

renewal

Structural Pest Control: \$37.50 for examination; \$112.50 for license and annual renewal

Technician: \$30.00 for license

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

Texas Structural Pest Control Board 1300 East Anderson Lane, C-250 Austin, Texas 78751 512/835-4066

- · one year experience under supervision of a licensed certified applicator; OR
- · a degree in biological sciences from an accredited college or university; OR
- technical field experience from previous occupation

### For a listing of schools and educational seminars, CONTACT:

Texas Department of Agriculture, OR

Texas Structural Pest Control Board

#### **WORKING CONDITIONS**

- · handle hazardous substances
- travel
- · outdoors

#### CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Pesticide applicators usually receive their training on-the-job. After several months experience under the supervision of a licensed applicator, newcomers may obtain a license and advance to supervisory positions. Applicators with job experience and sales aptitude may become pest-control salespersons, who contact prospective customers to inform them of their firm's services. Some may advance to owning their own businesses. Agricultural pest control workers operate in rural areas, whereas structural pest control workers usually operate in urban areas. Termite treaters, however, may work in suburban areas and small towns as well as in urban areas.

The outlook for pesticide applicators is balanced. Nationally, beginning applicators earn between \$3.85 and \$4.40 an hour; experienced employees earn between \$5.00 and \$10.00 an hour. Some workers receive commissions based on a percentage of the service charge to the customer.

### For more information on a career in pest control, CONTACT:

Texas Pest Control Association, Inc. 940 E. 51st Street Austin, Texas 78751 512/454-8626

#### AT A GLANCE...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook?

No Contact Board Yes Very Good PHARMACIST D.O.T. 074.161

#### JOB DESCRIPTION

Pharmacists compound and dispense drugs and medicines prescribed by physicians and dentists. They advise the public and physicians on uses and selection of prescription and nonprescription medicines. Pharmacists must understand the use, composition and effect of drugs and how they are tested for purity and strength. 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 record keeping

#### LICENSE REQUIREMENTS (VACS 4542a-1) (22 TAC Part xv)

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

#### Examination

- National Association of Boards of Pharmacy Licensing Exam (NABPLEX)
- · written
- Texas jurisprudence exam

#### Restrictions on Licensing

- drug or alcohol dependency
- · any violation of drug or pharmacy laws or regulations
- unprofessional conduct
- conviction of a felony or misdemeanor involving moral turpitude

#### Fees Not to Exceed

- · \$250.00 for examination
- \$ 85.00 for license
- \$ 85.00 for annual renewal

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

Texas State Board of Pharmacy 8505 Cross Park Drive, Suite 110 Austin, Texas 78754-4533 512/832-0661

- graduation from an accredited college of pharmacy
- internship of 1,500 hours in Board-approved internship program

## 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 7,450 in 1982; by 1990, the number should rise to 9,400. The employment outlook for pharmacists is very good and will remain the same through 1990. Salaries for beginning pharmacists average between \$27,000 and \$35,000.

## For more information on a career in pharmacy, CONTACT:

Texas Society of Hospital Pharmacists 8609 Cross Park Drive, Suite 102 Austin, Texas 78754 512/339-8120

#### AT A GLANCE ...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Yes, five years Yes, over 18 Yes Very Good

#### 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
- participation in continuing education program for licensees (mandatory)

#### 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:

- \$ 60.00 for application
- · \$100.00 for examination
- \$ 75.00 for annual renewal

#### Physical Therapist Assistant:

- \$60.00 for application
- \$90.00 for examination
- \$65.00 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

Physical Therapist:

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

Physical Therapist Assistant:

completion of an accredited physical therapist 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 opportunities for therapists are very good at the baccalaureate degree level and excellent at the graduate degree level. Employment opportunities vary widely throughout the state, but some improvement is expected by 1990. In 1982, there were 2,800 physical therapists employed. The projected figure for 1990 is 6,050.

Salaries for beginning therapists in Texas range from \$19,000 to \$22,000.

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?

Minimum age requirement?

Examination required?

Employment outlook?

Yes

Very Good

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 4495b) (22 TAC 163)

- · at least 21 years of age
- · good professional and moral character
- · specialized education and training

#### Examination

- medical -- Federation Licensing Examination (FLEX)
- jurisprudence -- Texas law
- · other written or oral exams, or personal interviews may be required

### 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 or dishonorable conduct
- · repeated or recurring health-care liability claims

#### Fees Not to Exceed

- \$700.00 for application processing and examination
- \$200.00 for intern and resident permits
- \$200.00 for annual renewal

## For more information on licensing requirements, CONTACT:

Texas State Board of Medical Examiners 1101 Camino La Costa, Suite 201 Austin, Texas 78752 512/452-1078

- 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:

- · American Medical Association
- American Osteopathic Association

#### WORKING CONDITIONS

- · may work irregular hours
- may work under stress
- · close physical 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, 28,500 physicians were employed in 1987.

The outlook for physicians in Texas is very good.

For more information on a career in medicine, CONTACT:

Texas Osteopathic Medical Association 226 Bailey Fort Worth, Texas 78701

#### AT A GLANCE...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Yes, 6+ years Yes, 21 Yes 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 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)

Apprentice registration:

· at least 14 years of age

## Journeyman

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

#### Master:

- · at least 18 years of age
- · must have had journeyman license for at least one year

#### Examination

- · written
- · mechanical
- · information about exam and study materials available from Board

### Restrictions on Licensing

- · license fraudulently obtained
- · conviction of felony or certain misdemeanors
- · violation of municipal sanitation rules or ordinances

## 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

## Journeyman:

· combination of work experience and/or technical training equaling 6,000 hours

#### Master:

- · must have held journeyman's license for 12 months
- · high school graduate or equivalent

## 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, 31,400 plumbers were employed in 1982. The expected annual employment by 1990 is 39,200. The employment outlook for plumbers is very good, and is expected to improve somewhat by 1990. Salaries for plumbers in Texas vary greatly and depend on the locality worked and union membership. The salary range for some 1984 graduates was \$15,000 to \$19,000.

# 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? Minimum age requirement? Examination required? Employment outlook? No Yes, over 17 Yes Very Good PODIATRIST D.O.T. 079.101

#### JOB DESCRIPTION

Podiatrists diagnose diseases and disorders of the feet by using X-rays or pathological tests. To treat diseases and disorders, they perform surgery, fit corrective devices, prescribe drugs, physical therapy, and proper shoes. Some common conditions treated include corns, bunions, calluses, deformed toes, and arch disabilities. They refer a patient to a physician when they detect medical disorders affecting parts of the body other than the feet. Podiatrists may specialize in surgery, orthopedics (bone, muscle and joint disorders), podopediatrics (foot ailments of children), and podogeriatrics (foot ailments of the elderly).

#### 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
- · oral
- · includes laws and Board rules

## Restrictions on Licensing

- · conviction of a felony, or any crime involving moral turpitude
- · misleading or deceptive advertising
- · license fraudulently obtained
- · habits of intemperance or drug addiction

#### Fees Not to Exceed

- \$115.00 for examination
- \$150.00 for annual renewal
- \$ 25.00 for annual continuing education fee

## For more information on licensing requirements, CONTACT:

Texas State Board of Podiatry Examiners 8317 Cross Park Drive, Suite 401 Austin, Texas 78754 512/834-0558

- · 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
- 15 hours of continuing education required for license renewal
- training in cardiopulmonary resuscitation (CPR)
- · 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 1983, 650 podiatrists were employed in Texas; the projected 1990 figure is 800. Nationally, the average salary for podiatrists is \$40,000.

## 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? Minimum age requirement? Examination required? Employment outlook? Yes, seven years Yes, over 21 Yes Very Good

## POLYGRAPH EXAMINER

#### 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 craphs 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
- · training schedule and suggested references available from the Board

## 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 fcr 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

#### 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 five months of internship training;
   OR
- · 12 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? Minimum age requirement? Examination required? Employment outlook? Yes, 4-5 years No Yes 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. Other categories of licenses include: dog trainer, alarm systems installer, security sales person, alarm systems monitor, and security consultant.

#### 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
- · surety bond and certificate of insurance on file with the Board
- · any information, evidence, statements or documents required by Board

#### Examination

· written examination may be required

## Restrictions on Licensing

- · conviction of felony or any crime involving moral turpitude
- · addiction to alcohol or drugs
- · conviction of cruelty to animals

#### Fees Not to Exceed

- \$225.00 for Class A license and renewal (private investigation firm)
- \$225.00 for Class B license and renewal (securities service firm)
- \$340.00 for Class C license and renewal (both private investigation and securities service firm)
- \$ 15.00 for registration and renewal of individual employed by firm as a private investigator
- \$ 30.00 for registration and renewal of individual employed by firm as a noncommissioned security officer
- \$ 15.00 for registration and renewal of individual employed by firm as a commissioned security officer

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

Texas Board of Private Investigators and Private Security Agents 313 East Anderson Lane, Suite 200 Austin, Texas 78752 512/463-5545

- three years consecutive experience in investigative field for private investigations firm license; OR
- · two 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, CONTACT:

Texas Board of Private Investigators and Private Security Agencies

### **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 Board of Private Investigators and Private Security Agents 313 East Anderson Lane, Suite 200 Austin, Texas 78752 512/463-5545

#### AT A GLANCE . . .

Postsecondary schooling?

Minimum age requirement?

Examination required?

Employment outlook?

No
Yes, over 18
Possible
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
- · specialized education and training

#### License:

- · certification as a psychologist
- · two years supervised experience in psychological services

#### Examination

- examination for Professional Practice in Psychology (EPPP)
- jurisprudence -- Texas law (rules, ethical principles)
- · oral -- practical issues

## Restrictions on Licensing

- · use of drugs or alcohol to an extent that affects competency
- 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); \$70.00 (license)
- \$310.00 for examinations
- \$ 25.00 for annual renewal (certification); \$70.00 for annual renewal (license)
- \$ 10.00 for annual renewal of health service provider certification

#### Psychological Associate:

- \$110.00 for examination
- \$ 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

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 3,600 psychologists employed in 1982. An increase, to 4,600, is expected by 1990. 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 512/454-2449

#### AT A GLANCE ...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Yes, 6+ years Yes, over 18 Yes Competitive

### REAL ESTATE BROKER/AGENT/INSPECTOR

#### JOB DESCRIPTION

Real estate brokers and salesmen [sic] represent property owners in selling or renting property. They sell real estate, handle rental properties, obtain listings, determine the fair market value, identify potential buyers, and show them the property. They may also develop building projects, manage commercial or residential property, and make appraisals of real estate. Brokers are independent business people who employ salesmen [sic]. Real estate inspectors inspect improvements to real property, including structural items, equipment and systems primarily for potential purchasers of real estate.

#### JOB REQUIREMENTS

- · maturity and honesty
- enthusiasm
- · ability to communicate well
- mechanical aptitude and construction experience (inspectors only)

### 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 (salesman [sic ] only)
- specialized education and/or training
- two semester hours or 30 classroom hours required for annual renewals until a total of 18 semester hours or 270 classroom hours are attained

#### Examination

- · written exam
- · study materials available from the Commission

#### 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); \$150.00 for application (inspector)
- \$100.00 annual renewal (broker); \$50.00 annual renewal (agent); \$200.00 annual renewal (inspector)
- \$ 25.00 examination (broker and agent); \$50.00 examination (inspector)

## For more information on licensing requirements, CONTACT:

Texas Real Estate Commission 1101 Camino La Costa Austin, Texas 78752 512/459-6544

Salesperson:

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

Broker:

 at least two years active experience as salesman [sic], and 60 hours of acceptable courses; OR

Inspector:

· 90 classroom hours of acceptable courses

## For a listing of schools, SEE:

Directory of Schools Certificated Under Texas Proprietary School Act, or CONTACT:

Texas Real Estate Commission

#### WORKING CONDITIONS

- evening and weekend work, full or part time
- extensive use of personal automobile

### CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Generally, beginning sales agents and inspectors 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. 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 salesmen [sic], or operate a one-person business. Many brokers have entered franchise agreements, using a nationally known company name in exchange for a fee. Inspectors may associate with other inspectors or operate on their own. Typically, they contract with the purchaser of real property to inspect the property for defects prior to purchase or occupancy.

In 1986, average annual employment in real estate was 63,000; in 1995 it is expected to be 75,000. The outlook for real estate professionals is balanced. Salaries of brokers and salesmen [sic] are usually paid as commission on sales. Beginners salaries average between \$17,000 and \$20,700. In 1987 there were approximately 1,200 inspectors in Texas. Inspectors must either work for existing firms or market their own services. Beginning earnings would range between \$20,000 and \$30,000 annually. Principals in larger, full-service firms can expect earnings to \$50,000 per year.

## For more information on a career in real estate, CONTACT:

Texas Association of Realtors Post Office Box 14488 Austin, Texas 78761 512/836-8630 Texas Association of Real Estate Inspectors Post Office Box 50153 Austin, Texas 78763 512/445-3366 or 915/0913

## AT A GLANCE . . .

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Yes, over 18 Yes Balanced

#### JOB DESCRIPTION

Respiratory care is the practice of providing treatment, diagnostic evaluation, and care to patients with cardiorespiratory deficiencies and abnormalities. They act upon written orders from physicians and perform procedures such as monitoring patients on respirators, teaching patients breathing exercises to clear and inflate lungs, and providing therapy with certain gases.

#### JOB REQUIREMENTS

- · good physical condition
- ability to work well under pressure and critical/emergency conditions
- ability to work with other health care professionals
- · desire to serve people
- · good judgment
- · attention to detail

## LICENSE REQUIREMENTS (VTCS 4512k, 25 TAC 123)

- specialized training
- high school graduation or G.E.D.
- three to 12 hours of continuing education credits per year may be required for certification renewal

#### Examination

· contact Texas Department of Health, Respiratory Care Program

### Restrictions on Licensing

must practice under medical direction

#### Fees Not to Exceed

- \$30.00 for application
- \$30.00 for certification
- \$30.00 for annual renewal of certification

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

Respiratory Care Program Texas Department of Health 1100 West 49th Street Austin, Texas 78756-3183 512/458-7631

· completion of a Board-approved respiratory care educational program

#### **WORKING CONDITIONS**

- indoors
- sanitary
- · may work irregular hours
- · may work nights and weekends

#### CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Respiratory care practitioners work in general acute-care hospitals, psychiatric hospitals ("Sleep Disorders" is a specialty field within respiratory care), long-term care facilities, outpatient clinics, home health care agencies and for durable medical equipment providers.

At present, the outlook for respiratory care is very good, with salaries ranging from \$15,000 to \$22,000. The salary for a respiratory care department head can be as high as \$30,000. Due to current advances in technology impacting on respiratory care (computer-enhanced imaging, SONAR, semi-conductors, lasers, hyperbarics) as well as ongoing research in environmental and air pollution, the demand for respiratory care practitioners should continue to increase. Respiratory care practitioners are also involved in the treatment and research of Acquired Immune Deficiency Syndrome (AIDS).

## For more information on a career in respiratory care, CONTACT:

Texas Society for Respiratory Care and American Society for Respiratory Care are both located at 1720 Regal Row Dallas, Texas 75235 214/631-1884

#### AT A GLANCE . . .

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Yes No Yes Very Good SANITARIAN D.O.T. 079.117

#### JOB DESCRIPTION

Sanitarians apply technical knowledge to the solution of environmental health problems. 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 337.181)

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:

Sanitarian Registration Program Texas Department of Health 1100 West 49th Street Austin, Texas 78756 512/458-7536

#### 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 Department of Health

#### **WORKING CONDITIONS**

- may travel
- · may instruct others
- · office and field

#### CAREER OPPORTUNITIES/EMPLOYMENT OUTLOOK

Newly registered sanitarians generally enter the field as sanitarians-in-training. As experience increases, opportunity for advancement to higher sanitarian classified positions is available. 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 regulatory programs and in government spending. Beginning salaries range from \$18,000 for non-supervisory positions to \$26,000 for supervisors.

## For more information on a career as a sanitarian, CONTACT:

Texas Department of Health c/o Program Manager Sanitarian Registration Program 1100 West 49th Street Austin, Texas 78756 512/458-7536

#### AT A GLANCE...

Postsecondary schooling?

Minimum age requirement?

Examination required?

Employment outlook?

Yes

Competitive

#### 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

- · general securities knowledge and state securities law
- specialized examinations required for certain categories of securities

## Restrictions on Licensing

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

#### Fees Not to Exceed

- \$30.00 for agent application
- \$15.00 for agent annual renewal
- \$70.00 for dealer application and \$15.00 for each officer
- · \$35.00 for dealer annual renewal
- · \$35.00 for application for Texas Securities Law Examination

# For more information on licensing requirements, CONTACT:

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

- · on-the-job training
- · college degree helpful

#### **WORKING CONDITIONS**

- · work deals with market fluctuations
- · 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 \$1,200 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 1999 Bryan St., Suite 1450 Dallas, Texas 75201 214/969-7050

#### AT A GLANCE...

Postsecondary schooling?

Minimum age requirement?

Examination required?

Employment outlook?

No
Yes

Balanced

SOCIAL WORKER D.O.T. 195.107

#### 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) (40 TAC 85.6001)

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

#### Examination

· written exam

### Restrictions on Licensina

- unethical conduct or conduct discrediting the profession
- · fraud or deceit
- · conviction of a felony

#### Fees Not to Exceed

- \$65.00 for application and examination (all levels)
- \$15.00 certification (Social Work Associate); \$15.00 annual renewal
- \$25.00 certification (Social Worker); \$25.00 renewal
- \$35.00 certification (Certified Social Worker); \$35.00 renewal
- \$45.00 certification (Certified Social Worker with Order of Recognition as Advanced Clinical Practitioner); \$45.00 renewal

## For more information on licensing requirements, CONTACT:

Council for Social Work Certification Texas Department of Human Services Post Office Box 2960 Mail Code 550 W Austin, Texas 78769 512/450-3255

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 experience specified by Board

To renew certificate:

· 30 hours of continuing education required

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 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.

The employment outlook for social workers is balanced, with some improvement expected by 1990. Beginning salaries in Texas average between \$14,000 and \$16,000 for those with baccalaureate degrees, and between \$18,000 and \$19,000 for those with graduate degrees.

For more information on a career in social work, CONTACT:

National Association of Social Workers, Texas Chapter 2512 IH 35 South, Suite 310 Austin, Texas 78704 512/445-5071

#### AT A GLANCE ...

Postsecondary schooling?

Minimum age requirement?

Examination required?

Employment outlook?

Yes

Yes

Yes

Balanced

### 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
- · attention to detail

## LICENSE REQUIREMENTS (VTCS 4512j) (22 TAC 741)

- · 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 78756-3183 512/458-7502, Extension 6706 or 6797

- · 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 six hours in speech pathology for audiologist licensees, and six hours in audiology for speech pathology licensees
- 300 clock hours of supervised clinical experience within training institution or cooperating program
- nine 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 mental concentration

### 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 2,700 in 1982; that figure is expected to rise to 3,500 by 1990.

The employment outlook is balanced, with supply and demand about equal. Beginning salaries are averaging \$14,000 to \$19,000.

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

Texas Speech-Language-Hearing Association c/o Mr. Banks Miller, Executive Director Post Office Box 610250 Austin, Texas 78761 512/452-4571

#### AT A GLANCE ...

Postsecondary schooling?

Minimum age requirement?

Examination required?

Employment outlook?

Yes

Balanced

#### 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.

#### JOB REQUIREMENTS

- · mathematical ability
- · attention to detail
- · good judgment

## LICENSE REQUIREMENTS (VACS 7244b) (22 TAC 623)

### Registration:

- · must be active in property tax field for which application is made
- Texas resident
- · at least 18 years of age
- · good moral character

#### Certification:

- Appraiser: five years experience, specialized education and training, one demonstration appraisal
- Assessor: five years experience, specialized education and training, professional report
- Collector: three years experience, specialized education and training

#### Examination

#### For certification:

Appraiser: two examsAssessor: two examsCollector: one 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 IH 35 Austin, Texas 78761-5920 512/837-8622

## Registration:

· high school diploma or equivalent

#### Certification:

· Assessor and Appraiser: 7-8 specified courses

· Collector: five 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 \$13,000 and \$14,000. In 1982, average annual employment of tax professionals was 5,900; in 1990, it is expected to be 7,200. 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 8820 Business Park Drive Austin, Texas 78755 512/346-4803

### AT A GLANCE ...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Yes Yes, 18 Yes 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 school 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

· written competency test

## 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

\$20.00 for certificate

## For more information on licensing requirements, CONTACT:

Texas Education Agency 1701 North Congress Avenue Austin, Texas 78701-1494 512/463-8976

 completion of an approved program at an approved institution of higher learning and recommendation 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 teachers attain supervisory or administrative positions. Employment is largest in an expanding population area.

In Texas, the total number of teachers employed in 1982 was 204,850. This number is expected to increase to 270,800 in 1990. The employment outlook is very good for bilingual teachers, special education teachers, and elementary and secondary school teachers. There may be a surplus of pre-kindergarten and kindergarten teachers through 1990. Beginning salaries for public school teachers in Texas range from \$15,200 to \$21,000 for a 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? Minimum age requirement? Examination required? Employment outlook? Yes, 4-5 years Yes, over 18 Yes Balanced to Very Good 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
- · desire to help animals

## LICENSE REQUIREMENTS (VACS 7465a) (22 TAC 571)

· 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

· contact Board

## For more information on licensing requirements, CONTACT:

Texas Board of Veterinary Medical Examiners 1946 South Interregional Highway, 3<sup>rd</sup> Floor Austin, Texas 78704 512/447-1183

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
- · may work long and irregular 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, where they may work as administrators. 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. Anyone interested in becoming a veterinarian should contact the Board to inquire about other categories of special licenses.

The outlook for veterinarians in Texas is balanced. There was an average annual employment of 6,450 in 1982; this is expected to increase to 6,600 by 1990.

The average salary for beginning veterinarians in Texas is \$19,000 to \$20,000.

For more information on a career in veterinary medicine, CONTACT:

Texas Veterinary Medical Association 6633 Highway 290 East, #201 Austin, Texas 78723 512/452-4224

#### AT A GLANCE ...

Postsecondary schooling? Minimum age requirement? Examination required? Employment outlook? Yes Yes, over 18 Yes Balanced

## AIR CONDITIONING and REFRIGERATION CONTRACTOR D.O.T. 637,261

### JOB DESCRIPTION

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; however, this requirement does not apply to those who work on portable or self-contained ductless air conditioning or heating units that have a cooling capacity of three tons or less, or a heating capacity of 36,000 BTU or less.

Licenses, effective for three years, are issued to persons who are 18 years or older, have three years practical experience OR a degree in air conditioning engineering or mechanical engineering and one year of experience, show evidence of required insurance coverage, and submit three recommendations from competent people in the industry.

The Class A license allows the holder to install, repair and alter summer or winter environmental air conditioning systems of any size or capacity. Holders of the Class B license may install, repair and alter systems with not more than 25 tons cooling capacity and not more the 1,500,000 BTU per hour output heating capacity. Fees are \$100.00 for the examination, \$300.00 for a Class A license with a \$150.00 triennial renewal fee, and \$150.00 for a Class B license with a \$75.00 triennial renewal fee.

## Licensing Agency (VACS 8861)

Air Conditioning and Refrigeration Contractors Advisory Board Post Office Box 12157 Austin, Texas 78711 512/463-5521

#### ATHLETE AGENT

D.O.T. 153.117

### JOB DESCRIPTION

Athlete agents recruit athletes to enter into agent contracts, professional sports services contracts, or financial services contracts. They also arrange for athletes to obtain employment with professional sports teams.

Athlete agents must register annually with the office of the Secretary of State.

For more information on registration, and to obtain registration fees, CONTACT:

The Secretary of State Post Office Box 12887 Austin, Texas 78711 512/463-5701

## BOXING AND WRESTLING PROMOTER

#### JOB DESCRIPTION

Boxing and wrestling 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. Annual fees for related licenses are: manager, \$75.00; matchmaker, \$75.00; referee, \$25.00.

## Licensing Agency

(VACS 8501-1)

Texas Department of Labor and Standards Post Office Box 12157 Austin, Texas 78711 512/463-5520

## FIRE PROTECTION SYSTEM CONTRACTOR

NO D.O.T.

## JOB DESCRIPTION

Fire protection sprinkler system contractors plan, sell, install, maintain, and service sprinkler systems designed to extinguish, control or contain fires. Each contractor must pass an examination and obtain a license. The fees are: \$100.00 for registration, \$100.00 for examination, and \$200.00 for annual license renewal. Contractors must also have a \$10,000 surety bond and proof of comprehensive general liability insurance greater than or equal to \$50,000 for bodily injury, \$25,000 for property damage, and \$50,000 for personal injury.

## Licensing Agency

(Insurance Code 5.43-3)

State Fire Marshal State Board of Insurance 1110 San Jacinto Austin, Texas 78701-1998 512/837-1428

For additional information on a career as a fire protection system contractor, CONTACT:

Texas Fire Sprinkler Contractors Association 12235 F.M. 529 Houston, Texas 77041 713/937-3332 IRRIGATOR D.O.T. 851.383

### JOB DESCRIPTION

An irrigator can sell, design, consult on, install, maintain, alter, repair, connect, or service irrigation systems which are connected to private or public, raw or portable, rural or municipal, water supply systems. Installers can only connect an irrigation system to a water supply. An examination is required for both licenses: irrigator, eight-hour examination; installer, 90-minute examination.

The fees shall not exceed: \$100.00 for examination (irrigator); \$75.00 for examination (installer); \$150.00 annual license renewal (irrigator); \$100.00 annual license renewal (installer).

Licensing Agency

(VACS 8751)

Texas Board of Irrigators P.O. Box 12337 Austin, Texas 78711 512/463-7990

MIDWIFE, LAY

NO D.O.T.

### JOB DESCRIPTION

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 to identify themselves in December of each year to the county clerk of each county in which they practice. The Department of Health maintains 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 Lay Midwifery Board. The Board establishes a training course and manual, and prepares a final test, which requires 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, child-birth 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** 

(VACS 4512I)

Bureau of Maternal and Child Health Texas Department of Health 1100 W. 49th Street Austin, Texas 78756 512/458-7700

# For more information on a career as a midwife CONTACT:

Association of Texas Midwives 603 West 13th Street, Suite 1A-202 Austin, Texas 78701 512/473-2598

D.O.T. 191.157

### **PAWNBROKERS**

#### JOB DESCRIPTION

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 impose 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 2601 North Lamar Austin, Texas 78705 512/479-1288

## For more information on a career as a pawn broker, CONTACT:

Texas Pawn Brokers Association P.O. Box 40 1109 West Central Texas Expressway Killeen, Texas 76541

## WATER WELL DRILLER

D.O.T. 859.362

### JOB DESCRIPTION

Water well drillers engage in the drilling, boring, coring, or construction of any water well, monitoring well, dewatering well, and certain injection wells. Licensed drillers must be Texas residents for at least 90 days, pass a written or oral exam, which includes topics such as drilling, completion and plugging methods and techniques, and ground water formations, and have two years well-drilling experience. Fees may not exceed \$25.00 for registration, \$25.00 for examination, and \$100.00 for annual renewal. Drillers are required to keep a well log and submit copies to the Commission.

### Licensing Agency

(VACS 7621e)

Texas Water Well Drillers Board Texas Water Commission 1700 N. Congress Ave. Austin, Texas 78711 512/463-7998

# APPRENTICESHIP IN TEXAS

## What is Apprenticeship?

Apprenticeship is a training program for an individual who would become a United States government-certified skilled laborer or craftsperson. In an apprenticeship program the apprentice receives a minimum of 2,000 hours of on-the-job, "hands-on" training while simultaneously attending formal classes on the theory surrounding the craft she/he has chosen.

The minimum age for becoming an apprentice is sixteen; however, most apprenticeship programs require a high school diploma or a GED (General Education Development Test). Therefore, most applicants to an apprenticeship program are about eighteen years old.

Because an apprenticeship is a *job*, the availability of positions is tied very closely to the prevailing economic situation: when employment is low, there is a smaller number of apprenticeships available than when the economy is healthy.

## How does Apprenticeship work?

The Texas Education Agency in conjunction with the Bureau of Apprenticeship and Training, a part of the United States Department of Labor, helps private employers establish an apprenticeship program within their own companies. A local committee, in cooperation with the U.S. Department of Labor, chooses the curriculum for a particular apprenticeship program.

During a three- to six-year period, an apprentice enters into a voluntary contract with the sponsoring company. The apprentice agrees 1) to work for the employer while receiving on-the-job training from the employer and 2) to supplement that practical experience with theoretical training in a classroom situation. In return, the employer agrees 1) to give the apprentice on-the-job training, 2) to arrange for theoretical instruction in a classroom setting, and 3) to offer a wage increase every 6 months during the training period.

# Advantages of Apprenticeship

Apprenticeship has a number of advantages for the employer, for local as well as state government, and for society as a whole. For example, the employer is assured of a long-term, dedicated worker who, at the end of her/his training, will be highly skilled and competent. The state has an immediate return on its investment because an apprentice is also a taxpayer; and the local community gains a skilled craftperson who *knows the trade*.

The personal and professional advantages for the individual apprentice are manifold; what follows is a partial list of the most important ones:

-- The minimum wage is currertly \$3.35/hour; the average starting wage for an apprentice is \$5.85/hour. Toward the end of apprenticeship, this figure increases to an average of \$10.40/hour; this means that the apprentice earns from 50 to 95% of what she/he will be earning after certification. In fact, the average apprentice earns approximately \$62,400 over a 4-year period, 1 increasing her/his employability and economic security.

O'Riley, R.P., "Apprenticeship and Economics in the State of Texas", prepared for the State Apprenticeship Conference in Houston, October 17, 1985.

- -- Apprenticeship is a reasonable and financially sound option to going to college, especially for an individual who can not immediately afford a college education. Whereas colleges do not pay a student to attend classes, employers do pay apprentices to learn a trade. (State law provides that "an apprentice may not be charged tuition or fees by a public school district or state postsecondary institution other than an administrative fee to cover the costs of processing his records which shall not exceed \$5 for each course in which the apprentice is enrolled." This law applies only if the apprenticeship program is receiving state funds -- as do most of the ones in Texas).
- -- It is sometimes possible to start an apprenticeship while still in high school, thereby allowing the student to finance her/his own education while working in an environment which is meaningful for the future. Because an apprenticeship pays better than most other part-time jobs, financial independence is achieved more quickly.
- -- Apprentices enjoy greater upward mobility: "Experience indicates that apprentices are more motivated, learn their jobs faster, attain craftworker status sooner and are more likely to become supervisors than workers trained in other areas."
- -- Classroom theory is reinforced by on-the-job training. This enables the apprentice to attain an especially refined expertise in a relatively short period of time.
- -- The apprentice learns to work and cooperate with trades and crafts people in a work setting while learning to work as part of a company or organization.
- -- At the end of the training period, the apprentice enjoys recognition as a skilled worker from the general public as well as from peers in the trade.
- -- Lastly, but perhaps most importantly, at the end of apprenticeship the apprentice is awarded certification by the United States Department of Labor. This is important because it means that the apprentice will enjoy recognition as a skilled craftsperson not only in Texas, but nationwide.

## Other considerations, facts and figures

- -- One disadvantage of the Apprenticeship and Training Program is that it requires a long-term commitment from the apprentice -- sometimes as much as six or seven years. Assuming that an individual can afford the cost of higher education, the same investment in time could yield a graduate degree in a professional field such as dentistry, law, psychology, etc., where potential income may be far greater than it is in the skilled crafts.
- -- Asbestos worker, bricklayer, carpenter, electrician, iron worker, and plumber are some examples of the many apprenticeable occupations in Texas. Traditionally "blue-collar" jobs, these skilled occupations generally permit a good standard of living; however, they may offer little chance for advancement after the craftsperson has achieved a certain level of expertise.

<sup>&</sup>lt;sup>2</sup>Texas Education Code, § 33.02 (e)

<sup>&</sup>lt;sup>3</sup> The National Apprenticeship Program. U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, Revised, 1982, p. 2.

-- During the period 1986-87, the apprenticeship programs affiliated with the Texas Education Agency graduated 3,500 apprentices; 167 -- or about five percent -- of those graduates were women. Sixtynine percent -- 2,439 apprentice graduates -- were white males, while Hispanic males and black males graduated fourteen percent and twelve percent, respectively. The following table, published by the Texas Education Agency, shows the complete breakdown:

	White	Hispanic	Black	Native American	Asian and Pacific Islander
Male	2,395	483	420	21	14
Female	98	_20	_47	_2	_0
Total	2,493	503	467	23	14

## Where to find out more . . .

For more information and for a list of apprenticeship and training programs in Texas, CONTACT:

#### Austin

Employment and Training Division Texas Education Agency 1701 North Congress, 6-107 Austin, Texas 78701 512/463-9294

### Beaumont/Port Arthur

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Federal Building, Room 114
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409/724-4360

#### Dallas

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#### San Antonio

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