Application Rcengv

This document contains all licensing documents and forms necessary to apply for licensure as a professional engineer in the state of Texas. Although this is a PDF document, all forms and documents in this booklet are available individually in other formats on the agency website or can be obtained by calling TBPELS office. The forms in this packet can be filled out on your local computer then printed out to be mailed with your payment. Please call if you need further assistance.

Texas Board of Professional Engineers and Land Surveyors

1917 S Interstate 35 Austin, Texas 78741-3702

Email: licensing@engineers.texas.gov Website: http://engineers.texas.gov

Phone: 512-440-7723

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS Licensure As A Professional Engineer In Texas

Who Should be Licensed

Under the Texas Engineering Practice Act, only duly licensed persons may legally perform, or offer to perform engineering services for the public in Texas. Furthermore, public works must be designed and constructed under the direct supervision of a licensed professional engineer. The terms "engineer" or "professional engineer" can only be used by persons who are currently licensed. Anyone who violates these parameters is subject to legal penalties.

Purpose & History

The Engineering Registration Act (Article 3271a, V.A.T.S.) was enacted as the result of a tragic school explosion at New London, Texas, in 1937. In response to concerns that the public could not identify who was qualified to practice engineering, the 45th Texas Legislature passed the Act as emergency legislation and it became law when signed by the Governor on May 28, 1937. The 59th Texas Legislature rewrote the original Registration Act. This Act became law on August 30, 1965, and was called the "Texas Engineering Practice Act."

The authors of the Texas Engineering Practice Act included the following statement in Section 1001.004 of the Act:

"The legislature recognizes the vital impact that the rapid advance of knowledge of the mathematical, physical, and engineering sciences as applied in the practice of engineering has on the lives, property, economy, and security of state residents and the national defense. The purpose of this chapter is to: protect the public health, safety, and welfare; enable the state and the public to identify persons authorized to practice engineering in this state; and fix responsibility for work done or services or acts performed in the practice of engineering."

It therefore becomes apparent that this legislation was not enacted to restrict the number of practitioners, but rather to "safeguard life, health, and property and protect the public welfare."

The Texas Board of Professional Engineers and Land Surveyors is authorized and required to license those individuals who are qualified by law to practice engineering, and to regulate the practice of engineering in Texas. To accomplish this mission, the Legislature further empowered the Board to make and enforce the rules dealing with licensing, compliance and enforcement, and standards of conduct and ethics.

Contacting the Board

The Board office is located at 1917 S Interstate 35 in Austin. Send all mail to: Texas Board of Professional Engineers and Land Surveyors 1917 S. Interstate 35, Austin, TX 78741-3702 TBPE website: <u>http://engineers.texas.gov</u> Licensing questions may be directed to: <u>licensing@engineers.texas.gov</u> Board telephone numbers are: (512) 440-7723 and (512) 442-1414/Fax The agency is open 8-5 Monday through Friday except weekends and holidays. The walk-in hours are 9-3 Monday through Friday however staff can be reached between 8-5 by email or phone.

Basic Requirements for Licensure

There are three basic categories of requirements that must be met for licensure: education, experience, and examinations.

Education - You must have earned one of the following degrees or degree combinations:

1) An accredited degree in engineering from an EAC/ABET accredited program in the United States or equivalent. Qualifying degree may be an undergraduate degree or an advanced degree issued by a program with an undergraduate program in the same discipline.

Equivalent degrees include:

A) Degrees from US programs specifically reviewed and approved by the Board;

B) Degrees from engineering programs covered by the Washington Accord, an international agreement between ABET and similar accrediting organizations from other countries;

C) Degrees from programs accredited by the Consejo de Acreditacion de la Ingenieria, Mexico;

D) Degrees held by engineers currently licensed in Canada; and

E) Foreign degrees from programs not covered by B) - D) above which are deemed equivalent by one of the Board approved evaluation service providers.

2) A non-accredited degree:

A) An engineering degree from a US program at a recognized institution of higher learning that does not meet the conditions of 1) above;

B) A degree in engineering technology from an ETAC/ABET accredited program; or

C) A US degree in mathematical, physical, or engineering science approved by the Executive Director. All degrees or combination of degrees must have at least:

8 hours of math beyond trigonometry (courses such as calculus and differential equations) and,

20 hours of engineering sciences (courses such as mechanics, thermodynamics, electrical & electronic circuits, materials science, transport phenomena, computer engineering, etc.).

Contact the Licensing staff if you have questions regarding your educational credentials.

Experience - You must meet the following experience requirements prior to submitting your application to the Board:

1. With an accredited engineering degree you must have 4 years or more of active practice in engineering work, of a character satisfactory to the Board, indicating that you are competent to be placed in responsible charge of such work. This experience must demonstrate a clear use of your engineering knowledge, engineering education, and engineering judgment to perform the task, be progressive, of an increasing standard of quality and responsibility in one dominant discipline. Although it is recommended that the engineering experience be obtained while working under the supervision of a licensed professional engineer, this is not a requirement for licensure.

2. With a non-accredited degree you must have 8 years of active practice in engineering work, of a character satisfactory to the Board.

During your first few years of experience after graduation, it is imperative that you place an emphasis on gaining experience that is acceptable for licensing purposes. Failure to become licensed can severely limit your potential professional growth.

While gaining experience, it is equally critical that you document it in such a way that you can summarize it for the Board. As you go about your weekly tasks, you should keep a detailed diary of your activities: the starting and ending dates of the project(s) on which you worked, name and address of each employer, job title(s), the name, present addresses and phone numbers of the engineers and other persons with which you personally

worked who can serve as a reference to substantiate your experience, identification of the project, the scope of the project, and the engineering activities that you personally performed.

When you are ready to apply for licensure, this information will be transferred from your diary into a summary called the Supplementary Experience Record (SER). It should range from about 6 to 12 pages and adequately describe the engineering activities that you have performed for your entire engineering career, starting with the first engagement after graduation from college. The SER is to be written in the first person describing in active engineering verbs the engineering work you specifically designed, calculated, evaluated, analyzed, etc.

Experience that is considered most acceptable for licensure purposes generally falls into one of two categories: design or analysis.

The most common type of acceptable experience is design. The common denominator in all design is the selection and use of recognized engineering principles and methodology to determine a solution to a problem. The final result of design work will almost always be details, plans, or specifications for use in creating a finished product.

The second common type of acceptable experience is analysis. Common features of analysis activities include the use of mathematical modeling or review of established design standards to assess a problem or proposal, and the act of making a learned recommendation based on analytical findings. An engineering analysis activity will result in a conclusive report and recommendation.

It should be noted here that many other types of activities will also be acceptable if your participation in those activities can be described in terms of design or analysis. By asking yourself if you can describe your activity in terms such as "I calculated..., I designed..., I analyzed..., I recommended...," you can almost assure yourself that you are describing design and analysis.

References - You are required to submit at least three confidential reference statements to the Board, from currently licensed professional engineers who are familiar with the work you describe in your SER. If you are applying for an original license and requesting an examination waiver you must submit five references, which must be from currently licensed professional engineers. You will choose the engineers to request references from. You should be aware that it is within an engineer's perogative to provide a reference if he or she is comfortable giving one. The reference provider will provide the Board with an assessment of your character and suitability for licensure and will verify the quality and scope of the work that you describe in your SER on the Reference Statement Form. The references do not all need to be from supervisors. A professional engineer who is familiar with your work, but may not be your supervisor will be acceptable as a reference. Professional engineers who can vouch for your character, but do not have personal knowledge of your engineering experience may review and judge your documented experience and serve as a reference. Such review will be documented on the Reference Statement Form.

One year of experience credit may be granted for each advanced (post-baccalaureate) engineering degree if the applicant has a degree in engineering and the advanced degree(s) are from an engineering program which has an accredited undergraduate program as described in section 1) of the education requirements above. Experience credit for all advanced degrees is limited to two years. Official transcripts are required to claim this credit, but SERs and references for this period are not necessary.

Examinations – To qualify for licensure, all applicants must take and pass three examinations:

- 1) The National Council of Examiners for Engineering & Surveying (NCEES) Fundamentals of Engineering (FE) examination;
- 2) The NCEES Principles and Practice of Engineering (PE) examination; and
- 3) The Texas Engineering Professional Conduct and Ethics Examination.

The PE examination is given at various locations in Texas (certain PE tests are given only once per year).

FE Exam –

The FE exam is a computer-based exam administered by NCEES. The FE examination is a supplied reference examination consisting of a morning and afternoon session. The FE exam is discipline specific. All candidates take the morning section, which consists of questions common to all disciplines. The afternoon session is administered in six disciplines and a general engineering section. The candidate will choose which section to work in the afternoon session. The FE format and specifications may be viewed/printed from the NCEES website at: http://www.ncees.org.

The Board expects all applicants to be able to pass the exams. The Board may, at its discretion, waive the FE examination for well qualified applicants who provide a written request submitted with an application for licensure, do not pose a threat to the public health, safety, or welfare, and have:

(a) an accredited degree and 8 or more years of engineering experience, or

(b) a non-accredited degree and 12 years of engineering experience, or

(c) a current Engineering Educator at a recognized institution of higher education with a Ph.D. in

engineering from a program with an EAC/ABET accredited undergraduate program or equivalent.

All requests for waiver of the FE will be subject to review by the Executive Director and may be reviewed by Board members. Requests for waiver (even those meeting the above guidelines) may be denied.

PE Exam –

The Principles and Practice of Engineering examination is a test offered in a specific discipline of engineering. You will be granted permission to take the PE exam only after your application for licensure has been approved. You may test in any of the following disciplines:

Agricultural Architectural Chemical Civil Control Systems Electrical and Computer Environmental Fire Protection Industrial Mechanical Metallurgical Mining/Mineral Naval Architecture & Marine Nuclear Petroleum Software Engineering Structural 16 Hour

The examination formats and specifications may be viewed/printed from the NCEES website at: http://www.ncees.org

The Board expects all applicants to be able to pass the PE exam that relates to his or her discipline. The Board may, at its discretion, waive the PE examination for well qualified applicants who provide a written request submitted with the application, do not pose a threat to the public health, safety, or welfare, and are:

1) A former Texas license holder or an engineer currently licensed in another US jurisdiction with:

- (a) an accredited degree and 12 or more years of engineering experience; or
- (b) a non-accredited degree and 16 years of engineering experience; or

2) A current Ph.D. Engineering Educator (as defined by Board rules) who has qualifying engineering experience teaching in an EAC/ABET program for at least eight years or has at least eight years of engineering experience consisting of an acceptable combination of other creditable engineering experience or EAC/ABET teaching experience. Only teaching of engineering which began prior to September 1, 2001 may be counted as qualifying engineering experience.

All requests for waiver of the PE will be reviewed by Board members. Requests for waiver (even those meeting the above guidelines) may be denied.

The Texas Engineering Professional Conduct and Ethics Examination is a self-administered examination concerning the Texas Engineering Practice Act and the Board Rules. It should be completed by the applicant and submitted with the application.

Applying for Licensure

The process of applying for licensure is rather time-consuming and you should give yourself plenty of lead-time prior to the date that you wish to have the application submitted. Once the complete application is submitted, allow 2-3 months for processing. Incomplete applications or those requiring Board review may take longer. Once the Board approves you to take the PE examination, you will be allowed to pay the examination fee and schedule the next examination before the deadline. These deadlines are about 8 weeks before the examination.

The following is a checklist of activities that you must perform to complete the application process:

1. Evaluate your education and determine the category under which you qualify for licensure. If you believe that you may have any deficiencies or if you need an evaluation to see if you meet the minimum education requirements, you should contact the TBPE. Application fees are non-refundable.

2. Take and pass the Fundamentals of Engineering (FE) examination or request a waiver. If you have not done so, you should contact the Board (or your school, if you have not graduated) as soon as possible and begin the process. The FE examination is offered by NCEES; and registration deadlines are set well in advance. Deadlines are posted on the <u>NCEES website</u>.

3. Evaluate your engineering experience. Again, if you believe that you have any deficiencies, you should contact the TBPE for help. DO NOT ANTICIPATE EXPERIENCE. The minimum experience must be earned prior to application submittal. Applications submitted when claimed experience prior to the date of submittal is less than the minimum requirements may be denied.

4. Request references from PEs. You must have at least three, but may need more depending on the circumstances of your experience. You must send your reference providers a copy of your signed SER. Keep the original to submit with the application.

5. Contact your university and request official transcripts. Official transcripts (marksheets and diplomas) are to be sent from the issuing institution directly to the Board. Student copies are not acceptable.

6. Complete your application as instructed. The application form must be typed (not hand-written). Applicants with foreign degrees or other unique situations should be aware that there may be additional requirements such as Test of English as a Foreign Language (TOEFL), and degree evaluations.

7. Complete the Texas Engineering Professional Conduct and Ethics Examination and submit the answer sheet or results with the application.

8. Applicants who have taken and passed the FE and/or PE exam in another US jurisdiction will not have to take them again in Texas, but will be required to obtain verification of those exams from the appropriate jurisdiction or NCEES to be sent directly to the TBPE.

9. The application fee is \$75.

Should you have any questions, please contact the Board office.

Payment Coupon

Failure to include the coupon below may result in a delay in the processing of your application.

Be sure to detach the coupon below and include it with your payment and application.

Texas Board of Professional Engineers and Land Surveyors

PE Application Payment

| Name (Please print) | Social Security Number | Email Address | Amount Due \$75 |
|---------------------|------------------------|---------------|------------------------|
|---------------------|------------------------|---------------|------------------------|

Please do not write in this area.

P.E. Application Checklist

For an application to be considered complete, you must include the following items. Note that your application will not begin processing until items #1-2 have been received.

Mail: 1917 S. Interstate 35, Austin, TX 78741 Email: licensing@pels.texas.gov

Items 1-4 must be sent to the board from the APPLICANT:

- 1) Complete PE Application Form Mail in this paper form or complete it online at https://engineers.texas.gov/app
- 2) 🛛 \$75 Application Fee (Don't forget the payment coupon with your check or money order if mailing the application.)
- - a. Submit one complete copy of your SER with your application form.
 - b. Provide copies to reference providers to co-sign (See #6 & #7 below)
- 4) Completed Texas Engineering Professional Conduct and Ethics Exam Answer Sheet or the passing scoresheet if you completed the exam online.

Item 5 must be sent directly to the board from the EDUCATIONAL INSTITUTION:

5) 🛛 Transcript(s)*

Items 6 & 7 must be sent to the board by one of the following methods:

- Collected by applicant and sent in all at once with the application
- Sent directly to the PE Board by the references themselves (See Board Rule 133.51 for reference requirements.)

Each Reference Provider is REQUIRED to:

- place the completed reference statement and reviewed supplementary experience records in an envelope; secure the flap of the envelope to prevent tampering; and the reference provider shall return the sealed envelope to the applicant or transmit the documents directly to the board.
 or
- (2) email the completed reference statement and reviewed SER directly to the TBPELS as a PDF and no other individual, including the applicant, can be included in the emailed submissions.
- 7) Copy of SER signed by applicant AND reference provider *

9) Include the following if applicable:

Send with application:

- a.
 □ Written Request for Waiver of one or both exams
- b. D Verification of Legal Name Change (due to marriage, immigration, etc.)
- c. D Proof of TOEFL or signed statement from employer of proficiency in written& spoken English
- d.
 Translation of Foreign Degree *

Send directly from Issuing Institution:

- f. D Verification of Examinations (Prior FE and/or PE Exams) *
- g. D Verification of Current License (in another jurisdiction)
- h.
 Commercial Evaluation of Non-Accredited Degree *
- * You may submit a NCEES Council Record (<u>http://ncees.org/records/</u>) in lieu of items marked with an asterisk. However, please fill out the information when requested on the application.



Not for applicants licensed in Australia, Canada or Mexico or for Engineering Educators.

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS (TBPELS) APPLICATION FOR LICENSURE AS A PROFESSIONAL ENGINEER

NOTE: All information on this form is subject to verification by the Board.

IMPORTANT-Do not complete this form until you have read and thoroughly understood the instructions and the requirements for licensure. Refer to the Law and Rules for references to specific rules. All information provided by you on this form must be TYPEWRITTEN (Handwritten applications will not be accepted.) Do not leave any section blank. State "not applicable" or "none" if such is the case. Omission of any information requested in any section of this application without satisfactory explanation may prevent the processing of your application. Only one copy of each form in the application packet has been provided. Please make additional copies as required. The application fee is \$75.00. Payment must be submitted with your application and be made by check or money order. Cash will not be accepted.

1. GENERAL INFORMATION

1. I am a: Texas resident Currently licensed in another jurisdiction Onot applicable

3. I am applying for a:
Regular License
Temporary License [Refer to Board rule 133.11.]

4. Are you a military service member, military spouse, or military veteran? \Box Yes \Box No If you answered yes, you may qualify for a fee exemption. In order to qualify for this exemption, you will need to provide verification.

Refer to <u>http://engineers.texas.gov/military.htm</u>l.

5. Full Legal Name:

| | | (First) | (Middle, if initial only- "IO", if None "NMI" | (Last) (Suffix) |
|------|------|---------|-----------------------------------------------|-----------------|
| □Mr. | ⊡Ms. | □Dr. | Maiden Name | |

Name changes must be supported by a copy of the legal document.)

6. Social Security Number:

Date of Birth:

7. Addresses: (Your residence address will be the address of record for all Board correspondence.) If your address changes during the licensure process, please notify the Board using the following page: <u>http://engineers.texas.gov/change</u>

| E-mail Address: | |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Residence: | |
| Street: | |
| City, State, Zip: | |
| Telephone No: | Fax No: |
| Employer: | |
| Firm Name: | |
| Street: | |
| City, State, Zip: | |
| Telephone No: | Fax No: |
| 8. What is your primary branch of engineerin [Refer to Board Rule 133.13 and 133.97(i).] | ng? |
| 9. Have you ever been denied a license in T This includes denial for failure to pass the Pr | exas? \Box No \Box Yes rinciples and Practice (P&P) examination within the prescribed time period. |
| 10. Have you previously been issued a licen | se in Texas? 🗆 No 🗆 Yes |
| Serial No: Expiration | Date: |

2. CRIMINAL HISTORY RECORD CHECK AND DISCIPLINARY ACTIONS

RECORD CHECK

Effective January 1, 2014, an applicant for professional engineer licensure in Texas must submit a legible set of fingerprints to the Texas Department of Public Safety (TXDPS) for the purpose of obtaining criminal history record information from the TXDPS and the Federal Bureau of Investigation. See more information at https://pels.texas.gov/recordcheck.html.

CRIMINAL HISTORY

The Texas Board of Professional Engineers and Land Surveyors will review the results of a thorough DPS and FBI criminal history record check to determine if you have ever had a criminal history.

You are required to report and provide supporting documentation related to any incident that you have ever had other than a simple traffic violation on the Criminal History Form. This includes any misdemeanor or felony convictions, probation, placement on deferred adjudication, dismissal after completion of court requirements, pre-trial diversion, or any other type of judgment. This applies to any incidents in any state, federal, or other jurisdiction, including a military court martial. As part of the application review process, the Board may request additional information to any violation.

Please be advised that offenses such as driving while intoxicated, driving while ability impaired, driving under the influence, driving under the influence of alcohol, operating while intoxicated, reckless driving, and similar kinds of incidents are, in some jurisdictions, not considered to be traffic violations, but must still be reported. Please be sure to report all such incidents.

Please be aware that the mere dismissal of an incident is not the same as having the case expunged. You will need to report all incidents, even if they have been dismissed, unless you have had your case(s) formally expunged by the court.

Failure to provide supporting information or documentation for any incidents may result in a significant delay of your application or may result in the denial of your application for licensure in Texas and forfeiture of the application fee.

I understand and acknowledge these instructions and requirements.

Initial Here

To submit any incidents, use the criminal history form at: <u>https://pels.texas.gov/downloads/CriminalHistoryForm.pdf</u> Please provide copies of court documents.

3. LICENSURE AND EXAMINATIONS

* Note: If you provide the NCEES record, you will not need to provide verifications indicated by an asterisk.

However, please complete the information on this form.

1. Do you have an NCEES record?
No
Yes If yes, what date was it transmitted to Texas?

2. \Box I have taken and passed the NCEES Fundamentals of Engineering Exam (FE). Where? When?

(If exam was taken outside of Texas, send a copy of Form EB-38 to the jurisdiction listed.)

 \Box I am requesting a waiver of the FE examination and meet the requirements of Board Rule §133.69. (Include a separate written request for waiver with application [Per to Board Rule §133.69(a)(2).] Note: a waiver is <u>not</u> automatic as it requires approval of the Board.) The applicant must report all FE exam failures in any juristiction. An applicant is not eligible to request a waiver of the FE exam if they have failed the FE exam three or more times in any jurisdictions.

3. □ I am requesting permission to take the NCEES Principles and Practice of Engineering Exam (PE). □ I have taken and passed the NCEES Principles and Practice of Engineering Exam (PE). Where? When?

(If exam was taken outside of Texas, send a copy of Form EB-38 to the jurisdiction listed.)*

□ I am requesting a waiver of the PE examination and meet the requirements of Board Rule §133.69. (Include a separate written request for waiver with application [Per Board Rule §133.69(a)(2).] Note: a waiver is <u>not</u> automatic as it requires an approval vote of the Board.)

4. List each state, territory, or nation where you:

a) hold a current license:

b) have previously held a license:

c) have been denied a license, including failure to pass the required examination:

d) have been disciplined by the licensing authority of that jurisdiction:

(Ánswers to c & d MUST be explained on a separate sheet of paper.)

5. Provide verification of your current license from the state, territory, or nation you considered to be your **primary jurisdiction**. This Jurisdiction is:

(Send a copy of Form EB-38 to the licensing authority of the PRIMARY JURISDICTION listed.)*

6. Complete and enclose the Texas Ethics of Engineering Examination answer sheet.

4. EXPERIENCE

List below in chronological order, all places of employment or unemployment, starting with the receipt of your first engineering degree, **accounting for all periods of time**. Your earliest employment is Engagement 1, etc. An engagement is one employer. A change in employer is a new engagement. DIFFERENT PROJECTS, SUPERVISORS, OR POSITIONS/PROMOTIONS HELD IN THE SAME CAPACITY FOR ONE EMPLOYER ARE NOT CONSIDERED SEPARATE ENGAGEMENTS. **DO NOT LIST CONCURRENT OR OVERLAPPING ENGAGEMENTS. IF NECESSARY TO DO SO, CONCURRENT AND OVERLAPPING ENGAGEMENTS MUST BE EXPLAINED ON A SEPARATE SHEET OF PAPER.**

Provide the name, address, and telephone number of someone familiar with your work for each engagement, preferably the person to whom you reported. If you were unemployed, provide the name of an individual who can verify your status. If you are/were self-employed, do not give yourself as a reference, but give the name and address of someone familiar with your work. Each of the individuals listed may be contacted; therefore, it is important that you furnish a complete mailing address, zip code and phone number.

Give the current date under "To" on latest engagement. DO NOT use "PRESENT".

| DATES (List From and To in Month and Date Format) | EMPLOYMENT (Name, Address and Position Held) | NON- ENGINEERING TIME (List Years and Months) | ENGINEERING TIME (List Years and Months) | NAME, TELEPHONE NUMBER AND PRESENT ADDRESS OF PERSON WHO CAN VERIFY EMPLOYMENT OR UNEMPLOYMENT |
|------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1. | | | | |
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| 5. | | | | |
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Total Time This Page Non Engineering:

Engineering:

4. Experience (Continued – Optional Page if Needed)

| DATES (List From and To in Month and Date Format) | EMPLOYMENT (Name, Address and Position Held) | NON- ENGINEERING TIME (List Years and Months) | ENGINEERING TIME (List Years and Months) | NAME, TELEPHONE NUMBER AND PRESENT ADDRESS OF PERSON WHO CAN VERIFY EMPLOYMENT OR UNEMPLOYMENT |
|------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 6. | | | | |
| | | | | |
| 7. | | | | |
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| 8. | | | | |
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| 9. | | | | |
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| 10. | | | | |
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| | | | | |

Total Time This Page Non Engineering:

Engineering:

5. EDUCATION

* Note: If you provide the NCEES record, you will not need to provide transcripts indicated by an asterisk.

However, please complete the information on this form.

Indicate Accredited Degrees:

Notify all institutions listed below to send in official transcripts in accordance with Board Rule 133.35.*

DegreeDate ConferredFull Name and LocationProgram(BS, MS, PhD)(City and State) of College/University

Dates of Attendance

Indicate Non-Accredited Degrees:

 Degree
 Date Conferred
 Full Name and Location
 Date

 Program
 (BS, MS, PhD)
 (City and State) of College/University

Dates of Attendance

Do <u>not</u> provide original transcripts in your possession. Such documents are not acceptable and the Board will <u>not</u> be responsible for returning them to you.

If the degree is from a foreign country provide: 1) copies of TOEFL and TSE scores or a written request for waiver and supporting documentation in accordance with Board Rule 133.21(9) & (11); 2) a commercial evaluation of the non-accredited degrees or a written waiver and documentation in accordance with rule section 133.33. (Refer also to Documentation for Non-Accredited and Foreign Degrees handout.)

6. AFFIDAVIT

I affirm that I am the applicant named in the foregoing instrument, that I have read the contents thereof, and that the foregoing statements are true and complete in all respects. I have obtained a copy of, have read and agree to abide by the Texas Engineering Practice Act (Section 1001) and the Board Rules. I believe that I meet the statutory requirements of the section of the Act under which I am applying for licensure in the State of Texas.

Signature of Applicant

Date

Comments: (Optional): Click here to enter text.

Texas Engineering Professional Conduct and Ethics Examination Based on the Texas Engineering Practice Act and Board Rules

There are two ways to take this exam:

1. Download and fill out answer sheet EB-01 as you take this exam. You will also need to download or refer to a copy of the Texas Engineering Practice Act and Board Rules. These documents are available at: http://engineers.texas.gov/downloads.htm#ethics

2. Take the exam online. The exam, answer sheet and the Texas Engineering Practice Act and Board Rules are all available at: <u>http://engineers.texas.gov/ethics_exam_login.php</u>

Authority and Scope: In June 2003, The Texas Engineering Practice Act (Act) was re-codified into the Occupations Code and can now be found under Title 6, Chapter 1001. The Act & board rules govern the practice of engineering in Texas and, among other things, make it a professional and ethical requirement for engineers to practice "... in conformance with standards, laws, codes, and rules and regulations applicable to engineering." The Texas Board of Professional Engineers and Land Surveyors (hereafter, "the Board") consists of six licensed engineers, three public members and one land surveyor appointed by the governor. This Board administers the Texas Engineering Practice Act, Professional Land Surveying Act & board rules on behalf of the citizens of Texas. The Board requires this Professional Conduct and Ethics Examination to help ensure that applicants for an engineering license in Texas have studied their responsibilities – ethical, professional, and legal – and that applicants are aware that guidance is available on these matters.

The objectives of this examination are to:

- 1. Ensure that an applicant is familiar with the professional practice provisions of the Act and board rules;
- 2. Promote the Act and board rules as a resource when confronted with professional conduct and ethical decisions;
- 3. Introduce an applicant to typical ethical and professional practice issues; and
- 4. Raise awareness that, when necessary, the Board serves as a disciplinary body through its compliance and enforcement powers.

Act and Board Rules: In accordance with these objectives, you will need to refer to a current copy of the Act & board rules as you take the examination, which may be found in electronic copy on the Board's website at http://engineers.texas.gov/downloads.htm. A complete version of the existing law and rules is on the site. The Texas Engineering Practice Act, as Chapter 1001 is commonly called, was first enacted in 1937 and is amended periodically. The Act contains provisions prescribed by the Texas Legislature to govern the practice of engineering in Texas and protect the public health, safety and welfare in matters related to the practice of engineering. The section of the Act are denoted §1001.XXXX". The board rules, under Title 22, Chapters 131-139 of the Texas Administrative Code, are established by the Board to further clarify and prescribe procedures for complying with the Act and are denoted "§13X.YY". (Example: §137.55)

Examination Format and Responses: You will be asked to consider a series of typical professional conduct and ethics scenarios that may have actually occurred in engineering practice in Texas. Following each scenario, you will be asked one or more questions. Based on the scenario and your review of the Act and board rules, chose the best answer for each of the following questions. Please read each question carefully. It is important to understand each participants' role in the scenario and if a rule is applicable to that participant. The exam is open book so you may review and study the rules as you proceed. You must answer **at least 23 questions (92%) correctly** to satisfy the Board requirements of review of the law and rules through this Professional Conduct and Ethics Examination. If you are unsuccessful in passing the exam on the first attempt, you will have an opportunity to take the exam again.

Scenario 1 Direct Supervision and Sealing of Engineering Work

Brian is a graduate engineer and has passed the FE exam but is not yet licensed. He is employed by a small engineering firm, and works with Jim, a licensed professional engineer and owner of the company. The firm is retained to do the structural design of a new rural public school. The project is assigned to Brian.

After completing his preliminary calculations for the structure, Brian does a computer analysis of some of the more complex aspects of the design. This computer analysis shows Brian's hand calculations are essentially correct.

Although Brian feels he is quite thorough and conscientious, he notices that Jim is rarely in the office, provides little or no supervision, and never checks Brian's work before sealing and submitting the plans and specifications to the client for the bidding and construction phases.

Brian wonders if Jim is in conformance with the Act and board rules and decides to discuss the matter with him.

Question 1. The board rule that most clearly addresses sealing requirements is:

- A) §137.55(a)
- B) §137.59(a)
- C) §137.33(b)
- D) §137.63(c)(1)
- E) §137.63(b)(2)

After talking with Brian, Jim agrees that he needs to review the design. He studies it in detail, noting a few minor errors in the wind loading that Brian used, but finds nothing that would require changes in the design when constructed at that location.

Brian appreciates the feedback and becomes more comfortable in his job. Then Brian learns

that Jim has given the design plans and specifications to his brother, Christopher, a construction contractor, not a licensed engineer.

Rather than hire an engineer, Christopher incorporates the design documents into a designbuild proposal for a like-sized (small) school. Jim is aware of this and does not object.

Question 2. Which board rule best relates to Jim knowingly allowing Christopher to use his design as described?

- A) §137.63(c)(1)
- B) §137.33(i)
- C) §137.55(b)
- D) §137.65(a)
- E) §137.33(f)

<u>Question 3.</u> Which section of the Act or board rule relates to Christopher's actions?

- A) § 137.59(a)
- B) § 137.65
- C) § 139.13
- D) § 1001.004
- E) § 139.17

In part due to the competitive advantage afforded by using an existing set of drawings, Christopher's company wins the design-build contract for the school. Christopher studied mechanical engineering in college and designs the mechanical systems for the school. He knows he needs an engineer's seal on the drawings before he can get a permit to start construction. He has a good friend, David, who is a mechanical engineer licensed in Texas, so Christopher asks David to seal the drawings.

David obtains a digital copy of Christopher's drawings, carefully reviews each sheet, adds the title block and other administrative designations, and affixes his engineer's seal to the drawings.

David's act of sealing Christopher's design drawings can be evaluated based on definitions in §131.81 of Act and board rules, in particular, *"direct supervision," "responsible charge,"* and *"responsible supervision."*

<u>Question 4.</u> Does David meet the requirements of direct supervision in as defined in §131.81 of the board rules?

- A) Yes
- B) No

Sealing work not performed under an engineer's direct supervision is commonly termed "plan stamping." Violations of the Act or any rule or regulation of the Board is sufficient cause for the Board to suspend or revoke an engineer's license, to issue a formal or informal reprimand, or to issue administrative fines.

<u>Question 5.</u> What Section of the Act allows the Board to discipline a license holder?

- A) §1001.4525
- B) §1001.203
- C) §1001.405
- D) §1001.407E) \$1001.451
- E) §1001.451

Question 6. Assume that David is found to have sealed work not performed under his direct supervision, what would be the recommended sanction for this violation based on the table in §139.35(b)?

- A) Reprimand/\$1,500 fine
- B) 2 year suspension/ \$4,000 fine
- C) 3 year suspension/\$5,000 fine
- D) Revocation/\$5,000 fine
- E) 1 year suspension/\$750 fine

Scenario 2 "Why Licensure?"

Trish is an unlicensed software engineer and has wondered why licensing of engineers is important.

Her friend José, a licensed engineer, explains that the licensing process was established by the Texas Legislature after a tragic explosion of a school in New London, Texas in 1937, in which more than 200 children and teachers were killed.

José elaborates that the Law states that the privilege of practicing engineering is entrusted only to those persons duly licensed, this in order to protect the health, safety and welfare of the public.

José gives Trish a copy of the Act and board rules for reference. Although Trish works for an industry that is "exempt" from the requirement of licensure, she learns that if she ever offers or provides engineering services outside her company, she will be required to be licensed. **Question 7.** Which Section of the Texas Act would exempt an engineering employee working solely for a manufacturing firm from the engineering licensure provisions of the Act?

- A) §1001.057
- B) §1001.056
- C) §1001.060
- D) §1001.058
- E) §1001.055

Through further inquiry, Trish learns that she cannot advance to the top administrative positions of her company unless she has an engineering license. She informs the corporate engineering director of her interest in licensure, and he encourages her to pursue it.

After studying the Act and board rules, Trish learns that the licensure process requires, among other things, documentation of her engineering experience and suitable engineering references. But this causes Trish to be concerned about a previous employment situation which she left due to difficult personal reasons not related to her technical abilities. Although she knows she is technically competent and is a talented engineer, Trish is fairly certain that her former supervisor, Quentin, a licensed engineer, holds a grudge against her and will not give her a favorable reference because of the difficult circumstances surrounding her departure. Nevertheless, Trish decides to ask Quentin to verify this portion of her engineering experience in her application since he was her engineering supervisor.

Question 8. Which Section in the Act or which board rules should protect Trish from a retaliatory action from her former supervisor?

- A) §1001.212
- B) §1001.452
- C) §133.51(c)
- D) §137.63(c)(2)
- E) §137.37

Scenario 3 Competitive Bidding, Political Contributions, and Marketing

Rachelle, a licensed engineer and corporate officer in her engineering firm, has been very involved in community affairs over her entire professional career, and is supportive of political candidates who represent what she believes to be better government.

A local county official, Phillip, has gained acclaim by seeking better recreational facilities for the economically disadvantaged persons of his county. Phillip sends Rachelle a Request for Proposal (RFP) which requests a bid for a hydrology study associated with a new phase of development in a low-lying park area.

The RFP emphasizes that County funds are limited, that Phillip intends that the project help as many disadvantaged persons as possible, and that the fee will be considered in selection of the engineer.

While Rachelle is sympathetic with Phillip's aspirations to help the disadvantaged, she responds to the RFP with a letter stating that competitive bidding for engineering services in the public sector is prohibited by law under the Professional Services Procurement Act (PSPA).

She reminded Phillip that, according to the Texas board rules, an engineer can be sanctioned for bidding engineering services on public works.

<u>Question 9.</u> Which Section of the Act or board rule most clearly directs an engineer on the

matter of competitive bidding for public work with a governmental entity or their representative?

A) §1001.203
B) §1001.402
C) §1001.407
D) §137.57(a)
E) §137.53(a)

<u>Question 10.</u> Do the Act or board rules prohibit competitive bidding for engineering services in the <u>private</u> sector?

- A) Yes
- B) No

Rachelle's firm opens a new branch office in a city where several politicians ask for significant support and, in some instances, it appears that "inducements" are necessary to be awarded engineering work. Despite her inclination to contribute financially to worthy candidates, the venal demeanor of these local politicians concerns Rachelle.

Question 11. Which board rule gives guidance to engineers on the matter of "inducements?"

- A) §137.57(b)
 B) §137.57(c)
 C) §137.57(d)
- D) \$137.63(c)(4)
- E) §137.63(c)(5)

Rachelle decides to continue her tradition of contributing to individual candidates and to the engineering political action committee. She is

satisfied that she is doing so to promote better government and is not contributing amounts that would be construed as "buying" work.

Later, Rachelle's firm has the opportunity to submit a Statement of Qualifications (SOQ) on a very large, high-profile transportation project in the city. The city will give preference for "local" talent.

Her business development team leader, Pearce, assembles the company's experience record and prepares project-specific résumés for each member of the project team for inclusion in the SOQ. A fierce competitor, Pearce drafts the SOQ, embellishing (actually, overstating) the firm's "local" capability to perform the engineering services for the City. Among other things, the SOQ attributes key expertise needed for the proposed transportation project to a senior engineer but that engineer works in an out-of-state branch of Rachelle's firm. Pearce includes him in the SOQ, but fails to mention he is not "local."

While reviewing the final draft of the SOQ, just prior to submittal, Rachelle notices these embellishments. Although it is not likely that any of the SOQ reviewers (City officials) will pick up on how Pearce has "embellished" her firm's qualifications, this troubles Rachelle.

In particular, Rachelle wonders whether it is deceiving to represent her firm in the way the SOQ describes its capabilities and experience.

Question 12. Which Section of the Act or which board rule most clearly directs Rachelle and her firm regarding the representations in the SOQ?

- A) §1001.203
- B) §1001.407
- C) §137.77
- D) §137.61(b)
- E) §137.63(b)(3)

Rachelle also notices that the Texas Act gives the Board authority to levy a fine for making misleading statements prohibited by Texas board rule §137.57(b).

<u>Question 13.</u> What is the suggested sanction for making a fraudulent statement or misrepresentation according to rule §139.35(b)?

- A) 1 year suspension/\$750 fine
- B) 2 year suspension/ \$4,000 fine
- C) 3 year suspension/\$5,000 fine
- D) Revocation/\$5,000 fine
- E) Board's discretion

| | ario 4 |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| · · · | Engineering Practices and Standards |
| Van Zandt, a retired petroleum engineer, relocates to a major metropolitan area. After a | As part of a routine inspection, Van Zandt issues a letter, bearing his Texas engineer's seal, that states |
| time, Van Zandt decides he can put his | and certifies that foundation repairs for a residence |
| engineering skills to use by working as a sole | are in conformance with industry standards. |
| proprietor engineer, doing part-time consulting | However, a subsequent engineering increation by |
| on residential type construction issues. | However, a subsequent engineering inspection by another engineer determined that the foundation |
| He believes that if he mastered the intricacies of | repairs did not meet city codes or industry |
| a refinery that he is qualified to consult for | standards and that engineer filed a complaint |
| residential construction. | against Van Zandt. |
| The work keeps him busy, the projects are quick and simple, paperwork is minimal, and the | The Board investigated the complaint and found that Van Zandt did not support his opinions and, |
| money is good. Thus Van Zandt soon finds him | since the letter contained false, deceitful and/or |
| doing a brisk business, but then he hits a run of | misleading information, Van Zandt was not acting |
| bad luck. | as a faithful agent for his client. |
| P01/revised 11/19 | I |

Question 14. Where in the Act or board rules can Van Zandt find the specific mandate pertaining to his responsibility to be a faithful agent for his client?

- A) §1001.103
- B) §137.55(b)
- C) §137.57(a) and (b)
- D) §137.63(a)
- E) §137.63(b)(4)

Some time later, Van Zandt testifies as an expert witness in a lawsuit. He makes the following statements under oath based on his own engineering judgment:

- The contact of a pier to a beam under the west wall foundation of the client's retail store was reduced by only 10%, and
- A slab surface 17 inches out of level over 170 feet would be "within tolerance."

Evidence discovered by another engineer showed the actual reduction in pier-to-beam contact was 82%, not 90%, and raised doubts about Van Zandt's opinion regarding the levelness of the slab surface.

Furthermore, the second engineer's report contained significant evidence in photos, graphics, and analytical calculations, and showed that Van Zandt's first statement was inaccurate and the second statement was both inaccurate and misleading.

Van Zandt's "quick and dirty" approach did not include adequate modeling, calculations, or analysis and thus afforded no basis for his statements at the time of his testimony.

The court determined that providing such testimony without fully disclosing the basis and rationale for his opinion was contrary to generally accepted scientific and engineering standards and principles, again putting Van Zandt before the Board.

Question 15. Which Section of the Act or board rules most clearly directs an engineer regarding his or her responsibilities when giving expert testimony?

- A) §1001.213
- B) §1001.004

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C) §137.59(c)
D) §137.63(b)(4)
E) §137.61(b)

Question 16. When approached with disciplinary action, Van Zandt claimed that he was not subject to such actions per the expert witness exemption in the Act. In reviewing §1001.004(e), is this true?

- A) Yes
- B) No

Van Zandt's ultimate downfall was related to another project, in which he wrote a letter, with his Texas professional engineer seal affixed, to the potential buyer of a home outside the city limits regarding his inspection of the septic system. Van Zandt stated that the septic system was constructed in accordance with the rules existing at that time and he certified that the septic system was functioning adequately.

But a professional sanitarian retained by the realtor inspected the same septic system the following week and provided a written report, in which he stated that the system appeared to be "nonstandard." It was not constructed in accordance with state regulations and, in fact, constituted a health hazard with raw sewage exposed to the atmosphere through a non-sealable lid.

Subsequently, a county official inspected the same system and provided a written report to the residents indicating that the system could not be permitted and was illegally discharging sewage.

The Board deemed Van Zandt incompetent to practice in this area. He was also found grossly negligent, in part because he failed to identify a potentially dangerous sewage disposal situation that could potentially harm the public.

Question 17. Which Section of the Act or board rules determines gross negligence by an engineer is a violation?

- A) §1001.302(d)
 B) §137.55(b)
 C) §131.81(16)
 D) §131.81(15)
- E) §137.63(c)(2)

Scenario 5 Conflict of Interest

George is a graduate mechanical engineer, and having passed the FE exam during his senior year in college, he now works as an Engineer in Training (EIT) for a medium-sized engineering firm under the supervision of Alex, a licensed professional engineer.

The firm is contemplating submitting a qualifications package for the mechanical design related to a multi-story hospital addition. George's mother happens to be a prominent physician and a liaison official of the hospital board and has some influence in the final selection of the engineering firm that gets this project.

George recognizes that a conflict of interest may exist and decides to inform Alex, but before he does, he checks the Act and board rules for guidance.

Question 18. Which Section of the Act or which board rule concerns conflicts of interest?

- A) §137.57(d)
- B) §139.13
- C) §139.17
- D) §1001.053
- E) §137.53

George tells Alex about the possible conflict of interest, but Alex takes the position that since George is not a principal in the firm, no problem exists. He tells George not to worry, and proceeds to submit the firm's qualifications for consideration, making no mention of George's employment in the submittal.

George believes he has done all he needs to do by informing his employer of the possible conflict of interest.

Also, George discusses the matter with his mother, and based on their conversation he feels sure that she would not grant any favors because of his involvement in the project. Still, the fact that Alex failed to mention him in the qualifications package seems improper and causes George to remain uneasy. Should Alex have done more? Should George do more?

Question 19. Under which board rule is a licensed engineer such as Alex *obligated* to inform the client?

- A) §137.55(a)
- B) §137.61(c)
- C) §137.57(c)
- D) §137.63(c)(4)
- E) §137.65(b)

Shortly thereafter, Alex recognizes that George's relationship may be perceived as an ethical issue and decides to disclose the matter to all affected parties, in particular, to the hospital board.

Alex's firm is awarded the contract and Alex assigns George to do the HVAC design.

As it happens, Alex has a friend who manufactures automatic shut-off valves which are marketed to both design and mechanical contractor firms. Alex gets a small percentage of the profit from his friend when he specifies their use.

He instructs George to specify these valves on the project.

George is concerned by this request, but since he is not personally getting anything for specifying the valves, he proceeds with the design as instructed.

<u>Question 20.</u> Which Section of the Act or which board rule best prohibits Alex's actions to specify these valves?

- A) §137.57(c)
- B) §137.53
- C) §137.59(a)
- D) §1001.4526
- E) §137.63(c)(5)

A short time later, George realizes that the scope

of this project requires that he optimize the design through the use of a proprietary software program, one which the firm does not yet own and which will cost a few thousand dollars.

When George informs Alex of this need, Alex breaks into a broad smile and tells George, "I'm way ahead of you. Here, take this!"

Much to George's delight, Alex hands him the software. George is very pleased until, while uploading the program, he realizes that this is a pirated copy of the program that Alex "borrowed" from a previous employer. **Question 21**. Which Section of the Act or which board rule best addresses Alex's dishonest practice when appropriating the pirated software?

- A) §137.55(a)
- B) §137.59(a)
- C) §137.35
- D) §137.63(b)(3)
- E) §1001.452

Scenario 6 Practicing Without a License

Jeff, an electrical engineer, submitted engineered design drawings for a parking garage lighting and vertical conveyance system to the Zip Company. The drawings bore his Texas engineer seal and signature and were dated December 12, 2003. But Board records revealed that Jeff's Texas engineer license expired on October 1, 2003.

Jeff renewed his license on January 2, 2004. Although his license is now current, the engineering work Jeff provided for the project while his license was expired was unlawful.

Question 22. Which Section of the board rule or Act best indicates that Jeff's actions were illegal in sealing the documents?

- A) §137.7
- B) §137.37
- C) §137.33(i)
- D) §1001.351
- E) §1001.353

It turns out that Jeff's Texas engineer license expired simply because he failed to immediately notify the Board in writing of his mailing address change that occurred when he changed jobs in May 2000. This resulted in Jeff not receiving the renewal statement that the Board mailed to his previous address.

<u>**Question 23</u>**. Informing the Board immediately of a change in address is required by which Section of the Act or board rule listed below?</u>

- A) §1001.351
- B) §1001.353
- C) §137.5
- D) §137.37
- E) §137.33(i)

Jeff also learned that, according to board rule §137.5, he must also inform the board when he changes employment.

Scenario 7 Moral Courage

Denzel, a successful licensed civil engineer, becomes the president of his firm and puts in place a company code of ethics, drawing on several codes as models. Denzel's early experience has convinced him that professional responsibilities go beyond just obeying the law.

For example, he recalls a situation in the mid-1980s when one of his geotechnical colleagues, Maria, observed inadequate shoring in a major utility trench. This was not Maria's project but was designed by one of her competitors, Paul.

Although Maria attempted to bring the deficiencies to Paul's attention, it became clear to her that Paul was highly distracted and was not adequately monitoring the project. Further, Maria knew that while it would be easier for her to ignore this possibly dangerous situation; if she did ignore the potential problem, she felt she would not be "protecting the health, safety, and welfare of the public" which is a vital responsibility of an engineer.

<u>Question 24.</u> If Paul fails to correct the situation, which Section of the Act or board rules informs Maria about her responsibility to report Paul to the appropriate authority or the Texas Board?

- A) §1001.552
- B) §137.55(c)
- C) §137.61(b)
- D) §139.11
- E) §137.51

Much later, just before his retirement, Denzel becomes occupied with a new challenge.

His firm wins a contract with the City to design a new overpass and provide engineering services during the construction phase. The project was assigned to one of their most respected engineers, Bill, a PE who designs the overpass and in the design specifications, he specifies the use of concrete barriers between opposing lanes for traffic control in the detour lanes around the construction zone.

After submitting the final design drawings and specifications, sealed in accordance with state law, the City engineer calls and requests that, for financial reasons, the traffic control measures consisting of large plastic barrels be placed instead of concrete barriers as specified in Bill's submittal.

Bill informs Denzel that the applicable design standards do allow for the use of barrels, but he opposes the change, expressing the concern that the change might compromise the level of safety needed in this particular situation because of the high traffic volume and underenforced speed limits. Denzel supports Bill's opinion. Never-the-less, the City's transportation engineer, also a PE, decides that the additional risk is acceptable, and makes the change in Bill's design specifications.

Bill and Denzel are aware of this change but make no further comment.

Question 25. Which Section in the board rules most clearly instructs engineers in the Board's requirements when making changes to the design work done by another engineer?

- A) §137.33(h)
- B) §137.57(c)
- C) §137.33(b)
- D) §137.33(i)
- E) §137.33(f)

An unfortunate accident occurs during construction of the overpass. A tragic head-on collision between two vehicles resulted in the loss of several lives. This tragedy would likely have been prevented if different decisions had been made by the city engineer regarding the use of concrete barriers instead of plastic barrels.

This sad experience, late in his career, was a sobering reminder to Denzel that a high standard of care in engineering practice is crucial in the engineering profession.

It also made Denzel convey to all his engineers that when they agree to allow someone to make changes in their design and specifications, they must take that decision very seriously.

He reminded his engineers that it is their responsibility to always be on the lookout for situations that may put the public in "Harm's way" and to always striving for excellence and high standards to protect the health, safety and welfare of the citizens of Texas.

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS DOCUMENTATION FOR NON-ACCREDITED AND FOREIGN DEGREES

1. TEST OF ENGLISH AS A FOREIGN LANGUAGE (TOEFL)

Applicants must speak and write the English language. Proficiency in English may be evidenced by possession of an accredited Bachelor's degree [as defined by 133.21(c)] taught exclusively in English, or passage of the TOEFL. The TOEFL representative is:

TOEFL Services Educational Testing Service P. O. Box 6151, Princeton, NJ 08541-6151 Telephone: (609) 771-7100, <u>http://www.ets.org</u>

The TOEFL code for this agency is 9653. Applicants requesting a waiver from the TOEFL requirement must submit a written request and supporting reasoning to the Executive Director. A waiver from the TOEFL requirement may be granted by the Executive Director upon receipt of one of the following:

a) a letter from the applicant's employer which verifies the applicant's proficiency in the written and oral communication of the English language; or

b) transcripts which verify six full-time semesters (6 credit hours per semester) toward an advanced engineering degree in the United States.

2. DEGREE EVALUATION

Applicants possessing degrees from non-accredited programs must furnish, at their own expense, a detailed evaluation of course work completed. The degree evaluation must include an "Equivalency Transcript" (a detailed evaluation of coursework with grades) and be sent directly to the Board office by the evaluation service. The foreign degree evaluation services selected by the Board are:

NCEES Credentials Evaluations

P.O. Box 1686 Clemson, SC 29633 1- 800-250-3196 or 864-654-6824 FAX: 864-654-6033 Web Site: https://ncees.org/records/nceescredentials-evaluations/

Foreign Credentials Service of America

Dr. William Paver 1910 Justin Lane, Austin, Texas 78757-2411 512-459-8428 FAX: 512-459-4565 Web Site: <u>http://foreigncredentials.org/</u> e-mail: info@foreigncredentials.org

SpanTran: The Evaluation Company

2400 Augusta Drive, Suite 451 Houston, TX 77057 713-266-8805 FAX 713-789-6022 Web Site: <u>www.spantran.com</u> E-mail: apps@spantran.com

Josef Silny and Associates

7101 SW 102 Avenue Miami, FL 33171 Tel: 305-273-1616 Fax: 305-273-1338 / Translation Fax: 305-273-1984 Web Site: <u>www.jsilny.com</u> E-mail: info@jsilny.com

Educated Choices, LLC

127 Inwood Ave. Upper Montclair, NJ 07043 973-746-6512 FAX 973-746-6597 Web Site: www.educatedchoices.com

Applicants requesting a waiver from evaluation of a degree must submit a written request and supporting reasoning to the Executive Director. See rule 133.33(b).

3.ENGLISH TRANSLATION

All documents supporting an application which are written in a language other than English must be accompanied by a certified English translation.

4. OFFICIAL TRANSCRIPTS REQUIRED

Per Board Rule 133.33(a), the applicant must have the school furnish an official transcript directly to the TBPELS.

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS INSTRUCTIONS FOR PREPARING THE SUPPLEMENTARY EXPERIENCE RECORD

TO THE APPLICANT:

The purpose of the Supplementary Experience Record (SER) is to explain in detail the engineering performed in the employment engagements you list on your application in Section 3, Experience. A SER must be provided for **ALL** engineering experience claimed. Descriptions of non-engineering engagements are not needed for your SER. The SER **MUST** be **TYPED IN BLACK** and must be written in the first person, narrative form, using complete sentences and active engineering type verbs.

In describing your experience, use specific tasks such as: I designed, I calculated, I analyzed, I recommended, etc. Avoid using vague terms such as: I was assigned to, I was responsible for, in charge of, participated in, etc.

In general, you should include in the description of your engineering experience the following:

(1) The general nature of your position in each engagement,

(2) The engineering work that you personally performed,

(3) The elements of engineering design and analysis,

(4) The identity of the projects by name, location, size, etc., and

(5) If you performed several projects which were similar in nature in an engagement, you may describe some typical projects in detail and then list similar ones by name, location, size, etc. identifying any unique differences.

AN EXAMPLE OF SUPPLEMENTARY EXPERIENCE RECORD IS PROVIDED AT THE BOTTOM OF THESE INSTRUCTIONS.

If an engagement (which means one term of employment with the same company) consists of numerous projects, it is not necessary to separate these by engagements. If you changed supervisors, or if you changed positions, etc., it is not necessary to list it as another engagement. Your detailed description of these changes should be noted in the SER. The purpose for this is to show progressive engineering experience of an increasing standard of quality and responsibility. (Refer to Board Rule 133.43 describing acceptable experience.)

The SER is **REQUIRED** and plays a very significant part in the Board's review of your application. It is your description of the engineering work that you have personally performed (Refer to Board Rule 133.43). If you are applying for original licensure you **MUST** submit a SER for each and every engagement that you claim under the engineering column of the application, from the date of receipt of your first engineering degree to the present. If you are a former Texas license holder whose license has been expired for two or more years, you **MUST** submit a SER for all employment engagements from the date the license expired, describing at least the last four years of engineering experience [Refer to Board Rule 133.23 (b)(4).

There is no prescribed length for your SER, but it should not exceed 12 pages. The description you provide should show a reviewer, who may not be familiar with your work, that you have achieved the necessary engineering experience to meet the requirements for licensure. The pages of your SER should be numbered consecutively. **EACH** and **EVERY** page of your SER **MUST** be signed and dated by you.

YOUR ORIGINAL SER IS FOR THE BOARD'S REVIEW AND MUST BE INCLUDED WITH YOUR APPLICATION. THE BOARD WILL NOT CONSIDER AN APPLICATION IF THE ORIGINAL SER IS NOT INCLUDED WITH THE APPLICATION. DO NOT SEND YOUR ORIGINAL SER TO YOUR PROFESSIONL

ENGINEER (P.E.) REFERENCES. Send a copy of the applicable page or pages from your SER for each engagement to a P.E. reference who is to verify the experience that you have claimed for that engineering engagement. The reference writer will sign and date the SER copy(ies) in the lower left corner of the form and return the signed copy(ies) along with a completed reference statement in a **CONFIDENTIAL** envelope to you. (For further details, refer to Board Rule 133.53 and the instructions on the reverse side of the REFERENCE STATEMENT FORM.)

<u>NOTE</u>: Do <u>**NOT**</u> submit publications, blueprints, papers or other documents unless requested to do so by the Board. Such documents will have no effect on the final disposition of your application and the Board will not be responsible for returning them to you.

EXAMPLE



<u>SUPPLEMENTARY EXPERIENCE RECORD</u> Page no. (1) of (9) pages

REFER TO THE REVERSE SIDE OF THIS FORM FOR INSTRUCTIONS FOR COMPLETING THE SUPPLEMENTARY EXPERIENCE RECORD.

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| SAME | | ON OF ENGINEER lete sentences writ | | | |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| NUMBERAS APPLICABLE SECTION OF | ENGAGEMENT NO. | FROM: | то: . | | _ (dates) |
| APPLICATION | NAME OF EMPLOYER A | ND LOCATION: | ABC Engineering | Company, Dallas, Tex | as |
| | ENGINEERING SUPERV | ISOR'S NAME(S): | Samuel J. Smyt | he, P.E. | |
| GENERAL: WHEN, WHERE, AND WHAT | My first year and production staff designing Stores in 7 different state | g Wal Mart Stores. | | nember of the enginee sis and design on 29 | |
| TYPE OR DESCRIPTION OF WORK | Each project inc each. Occasionally spec situation. | | | nd roof and the interfa es were considered in | |
| , , | <u>I designed</u> the r tube columns, the mason beam). <u>I also designed</u> Philadelphia, PA. | ry walls, the foundation | tion systems (sprea | | grade |
| TELL US IN DETAIL WHAT YOU PERSONALLY PERFORMED | One of the more analyzed and designed South Florida Building Co separated by an expansion taking into account a rigin zones of heavier gauge r calculated the tension/co chord angles. I designed large uplift loads. I conc feet below the finished flo This particular Wal Mart designed all the connect ledger and adhesive and forces. The projects, ranging in s cities: | the 12" load bearing ode. The lateral system on joint. <u>I calculate</u> d diaphragm analys oof deck must be us ompression chord for <u>d</u> the spread footing <u>luded</u> that for an en- por to take advantage also had a wood fra- tions necessary (i.e. hors to anchor the lease | g masonry walls for tem involved 2 C-sl <u>d</u> the deck shears f s. Due to the high ed along the perime rces of the cantilev foundation system conomical design, th e of the dead load med canopy along hurricane ties to h edger to the mason | haped cantilevered dia for the C-shaped diaph deck shears, <u>I determ</u> eter of the shear walls. ered diaphragm <u>and si</u> for gravity loads as we he footing must be place of the soil above the foo the front of the building old the canopy down a ry wall) to resist the wir | under the phragms ined that <u>lalso</u> ized the ell as the ced 2.5 poting. g. <u>l</u> it the nd uplift |
| | Aberdeen, MD Bedford Park, IL Philadephia, PA | Albuquero Boca Rot | ue (E), NM an, FL | Hallandale, FL Coshocton, OH | |
| | | DDITIONAL <u>SIMILA</u> ETC. BELOW OR | | TITLE, L SHEET OF PAPER. | > |
| San | muel Smythe, P.E. | 11-7-96 | yourt | lame | 11/1/9 |
| Referer | nce's Signature | Date | Xpplicant's | Signature | Date |

Texas Board of Professional Engineers and Land Surveyors SUPPLEMENTARY EXPERIENCE RECORD

(Refer to the instructions and example provided before completing this form. Only one copy of this form has been provided. Please make additional copies as required.)

Applicant's Full Name: ______Applicant's Date of Birth: ______

Description of Engineering Performed

| Engagement #: | |
|--------------------------------|--|
| From (date): | |
| To(date): | |
| | |
| Name of Employer and Location: | |

Engineering Supervisor's Name(s):

Describe:

I certify that the above supplementary experience record is true and correct to the best of my knowledge.

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

INSTRUCTIONS FOR COMPLETING THE REFERENCE STATEMENT

TO THE APPLICANT:

Complete the top portion of the Reference Statement Form -- Employment Engagement Number, Firm/Company Name, Dates of Employment, and Applicant's Full Legal Name.

Send a copy of the applicable portion of the Supplementary Experience Record (SER) and this form to the professional engineer (P.E.) who will verify the engineering experience documented in the SER [Refer to Board Rule 133.53]. Each engineering engagement claimed to meet the minimum years of experience required must be verified by a P.E. reference. Instruct the P.E. references to evaluate your experience record and complete this form in the manner described below. Your reference provider must return these completed items to you in a sealed envelope that has been prepared in accordance with the instructions. Submit these sealed statements to the Board with your application.

TO THE REFERENCE WRITER:

1. All reference providers must be a licensed professional engineers. You must complete the Reference Statement form and indicate on the Reference Statement form whether the reference is an evaluation of the applicant's character and work experience either through personal knowledge of the applicant's work or review of the work experience described in the SER [Refer to Board Rule 133.51]. You must complete all questions. If necessary, continue explanations and comments on another sheet of paper.

2. Place the completed reference form and the signed SER in an envelope. Sign your name across the closure flap and place transparent tape over your signature. If you are a licensed engineer in another State, you must include a copy of your pocket card, or other verification to show that your license is current.

3. Return the properly sealed envelope to the applicant.

The Reference Statement and the signed SER excerpt are confidential and are not classified as public documents under the Texas Public Information Act, and thus are not subject to discovery, subpoena, or other disclosure by the applicant or anyone else.

Texas Board of Professional Engineers

and Land Surveyors

REFERENCE STATEMENT

(BEFORE COMPLETING THIS FORM, PLEASE READ THE REFERENCE STATEMENT INSTRUCTIONS. ONLY ONE COPY OF THIS FORM HAS BEEN PROVIDED. PLEASE MAKE ADDITIONAL COPIES OF THIS FORM AS REQUIRED.

PLEASE MAKE ADDITIONAL COPIES OF THIS FORM AS REQUIRED.

TO BE COMPLETED BY APPLICANT

| Verification for employment engagement # | |
|------------------------------------------|--|
| Firm/Company Name: | |
| From (Date): | |
| To (Date): | |
| Applicant's Full Legal Name: | |
| Applicant's Date of Birth: | |

TO BE COMPLETED BY REFERENCE PROVIDER

Note: Please refer to Sections 133.51, 133.53 and 133.55 of the rules. Reference statements are confidential and not subject to release to the applicant nor the Texas Public Information Act. You may attach a page on which to provide more information.

| Reference Provider's Name (| Typed or Printed): |
|----------------------------------|------------------------------------------------------------------------------------------------|
| | tate & Zip: |
| Business Title: | |
| | |
| My current state of primary lic | ensure is: (State): |
| P.E. No.: | |
| | |
| (If licensed PE in state other t | Licenses Held: |
| | |
| | |
| Reference Evaluation is: | \Box Character & Personal Knowledge of Work Described in of SER [Be sure to sign the SER] |
| | Character & Review of SER only for Purpose of Reference Statement [Be sure to sign the SER] |
| 1. How long have you known | the applicant? |

| 2. Are you related to the applicant? If so, how? | □ No | □ Yes | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. Was/is your relationship with the applicant Please explain: | | | |
| Dates of business relationship: From: | To: | | |
| 4. The Texas Engineering Practice Act states the engineering shall provide evidence of good profi Board, is sufficient to ensure that the individual of in any practice setting. Such evidence shall est able to think and act rationally, is able to keep p own behavior. How would you describe the app | essional cha can consiste ablish that th romises and | racter and ntly act in t e person is honor oblig | reputation which, in the judgment of the he best interest of clients and the public s able to distinguish right from wrong, is gations, and is accountable for his/her |
| | | | |
| 5. Do you know of anything that would negative professional engineer? | - | | ability to practice as an independent If yes, explain: |

6. What have you observed that convinces you that the applicant (has/has not) adequately applied engineering education, training, and experience in the practice of engineering?

7. Do you believe that the applicant's experience was sufficiently complex and diverse, and of an increasing standard of quality and responsibility, to provide sufficient professional growth for the applicant to be recommended for a license?
No
Yes
Please explain and add additional comments:

8. Based on your knowledge and observations, do you believe that the applicant has reached a level of competency to be placed in responsible charge of engineering work in his/her discipline?
No Yes Please explain and add additional comments:

| Reference Provi | der's Signature |
|-----------------|-----------------|
| Date: | |

VERIFICATION OF LICENSURE AND/OR EXAMINATION

(Only one copy of this form has been provided. Please make additional copies as required.)

TO: TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS 1917 IH 35 South, Austin, Texas, 78741-3702 (512) 440-7723 / FAX: (512) 442-1414

| FRC | OM: | | | | |
|------|-----------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------|----------------------------|-----------------|
| | (Board name & Address) | | () | Name of Applica | nt) |
| | | | | (Street Address |) |
| | | | | | |
| | | | (City) | (State) | (Zip) |
| I. | THE ABOVE NAMED PERSON WAS LICE | NSED AS: | SOC. SEC. NO | .: | |
| | | License Number | Date Issued | Valid Until | Date Applied |
| | PROFESSIONAL ENGINEER | | | | |
| | ENGINEER-IN-TRAINING | | | | |
| п. | BASIS OF LICENSURE AND/OR EXAMIN | | CATION: | | |
| 1. | WRITTEN EXAMINATION: | | | | |
| | hours NCEES EIT OR FE exa | im | | | |
| | Date of Exam: | | Score: | | |
| | hours NCEES PE exam in | | | engineering | |
| | Date of Exam: | | Score: | | |
| | hours NCEES PE exam in | | | engineering | |
| | Date of Exam: | | Score: | | |
| | hours other non-NCEES exan | n(s) | | | |
| | Date of Exam: | | Score: | | - |
| | EIT/FE ACCEPTED FROM: | | | | |
| 2. | | | | | |
| 3. | EDUCATION AND EXPERIENCE: If ch Including graduation from ABET engineer | | nsee has less that 8 yea Please give details on o | | |
| 4. | OTHER: (Please give details on other side | de) | | | |
| 5. | Has disciplinary action ever been taken agains If so, please give details on other side, includi | | | No No inary action. | |
| BY: | | | | | |
| TITL | | | | (| (BOARD SEAL) |
| DAT | | | | | |
| | | | | | |

Applicant for Licensure Information Change Form

DO NOT USE THIS FORM IF YOU ARE A LICENSED PROFESSIONAL ENGINEER

THIS FORM CAN BE FILLED IN ON-LINE, PRINTED, AND MAILED OR FAXED TO THE BOARD.

INSTRUCTIONS:

It is the applicant's personal responsibility to maintain current information with the Board and notify the Board office as changes occur. The home address is considered the address of record for all correspondence throughout the application, examination and initial licensing process.

Failure to notify the Board office of an address change could delay the receipt of your license.

By submitting this information in writing, you are certifying that the information you have provided on this form is true and correct to the best of your knowledge. This submittal will act as an electronic signature.

Mail or Fax to: Texas Board of Professional Engineers and Land Surveyors 1917 S. Interstate 35, Austin, TX 78741-3702 Phone: (512 440-7723 Fax: 442-1414

Address Information

| | - | |
|----------------------------------|----------------------------------|---------------------|
| Last 4 Digits of Social Security | Home Phone | Home Em ail Address |
| Last Name | First Name | Middle Name |
| Home Address | | |
| City | State | Zip |
| Country | Effective Date of Address Change | |

Employer Information Primary Employer

| Full Legal Trade or Business Name | | | Effective Date | e of Change | |
|---------------------------------------------------------------------------------|----------------|-----|----------------|-------------|--|
| | | | | | |
| Status of Business (Corp., Co. etc.) Physical Location by Street Address and Su | | | ite Number | | |
| | | | | | |
| City | State | Zip | | Country | |
| | | | | | |
| | | | | | |
| Relationship (Officer, Full-time employee, etc.) | Business Phone | | Business Email | | |
| | | | | | |
| | | | | | |
| | | | | | |

Secondary Employer (If Applicable)

| Full Legal Trade or Business Name | | | Effective Date | of Change | |
|--------------------------------------------------|---------------------------------------------------------------------------------|-----|--------------------------|-----------|--|
| | | | Effective Date of Change | | |
| | | | | | |
| | | | | | |
| Status of Business (Corp., Co. etc.) | te Numher | | | | |
| | Status of Business (Corp., Co. etc.) Physical Location by Street Address and Su | | | | |
| | | | | | |
| | | | | | |
| City | State | Zip | | Country | |
| 5 | | 1 | | 5 | |
| | | | | | |
| | | | | | |
| Relationship (Officer, Full-time employee, etc.) | Business Phone | | Business Ema | ail | |
| | | | | | |
| | | | | | |
| | | | | | |

Additional Secondary Employer (If Applicable)

| Full Legal Trade or Business Name | | | Effective Date | e of Change |
|--------------------------------------------------|------------------------------------------------------|-----|----------------|-------------|
| Status of Business (Corp., Co. etc.) | Physical Location by Street Address and Suite Number | | | |
| City | State | Zip | | Country |
| Relationship (Officer, Full-time employee, etc.) | Business Phone | | Business Ema | ail |