

# NEC<sup>®</sup> Compliance

- ✓ **Safe Design**
- ✓ **Safe Materials and Equipment**
- ✓ **Safe Installation**





**There's More!!**

# State and Local Requirements

**ORDINANCE NO. 24584-12-2020**

AN ORDINANCE AMENDING THE FORT WORTH ELECTRICAL CODE, BY ADOPTING THE 2020 NATIONAL ELECTRICAL CODE, WITH LOCAL AMENDMENTS; AMENDING SECTIONS 11-1 THROUGH 11-4 OF THE CODE OF THE CITY OF FORT WORTH (2015); REGULATING ERECTION, CONSTRUCTION, DEMOLITION, CONVERSION, ALTERATION, REPAIR, MOVING, REMOVAL, USE AND MAINTENANCE OF ELECTRICAL EQUIPMENT IN THE CITY OF FORT WORTH, TEXAS; DEFINING CERTAIN TERMS; ESTABLISHING MINIMUM REQUIREMENTS FOR THE INSTALLATION, ALTERATION OR REPAIR OF ELECTRICAL SYSTEMS; PROVIDING FOR THE ISSUANCE OF PERMITS AND THE COLLECTION OF FEES THEREOF; PROVIDING FOR THE INSPECTION OF SUCH SYSTEMS; REQUIRING ANY REGulating LICENSES AND REGISTRATIONS FOR ELECTRICIANS AND PRESCRIBING THE FEES THEREFOR; PROVIDING A SEVERABILITY CLAUSE; PROVIDING THAT THIS ORDINANCE SHALL BE CUMULATIVE; PROVIDING A SAVINGS CLAUSE; PROVIDING FOR A PENALTY CLAUSE; PROVIDING FOR PUBLICATION OF THIS ORDINANCE; PROVIDING FOR PUBLICATION IN PAMPHLET FORM; PROVIDING FOR PUBLICATION IN OFFICIAL NEWSPAPER AND PROVIDING AN EFFECTIVE DATE.

**OCCUPATIONS CODE  
CHAPTER 1305. ELECTRICIANS  
(Effective September 1, 2019)**

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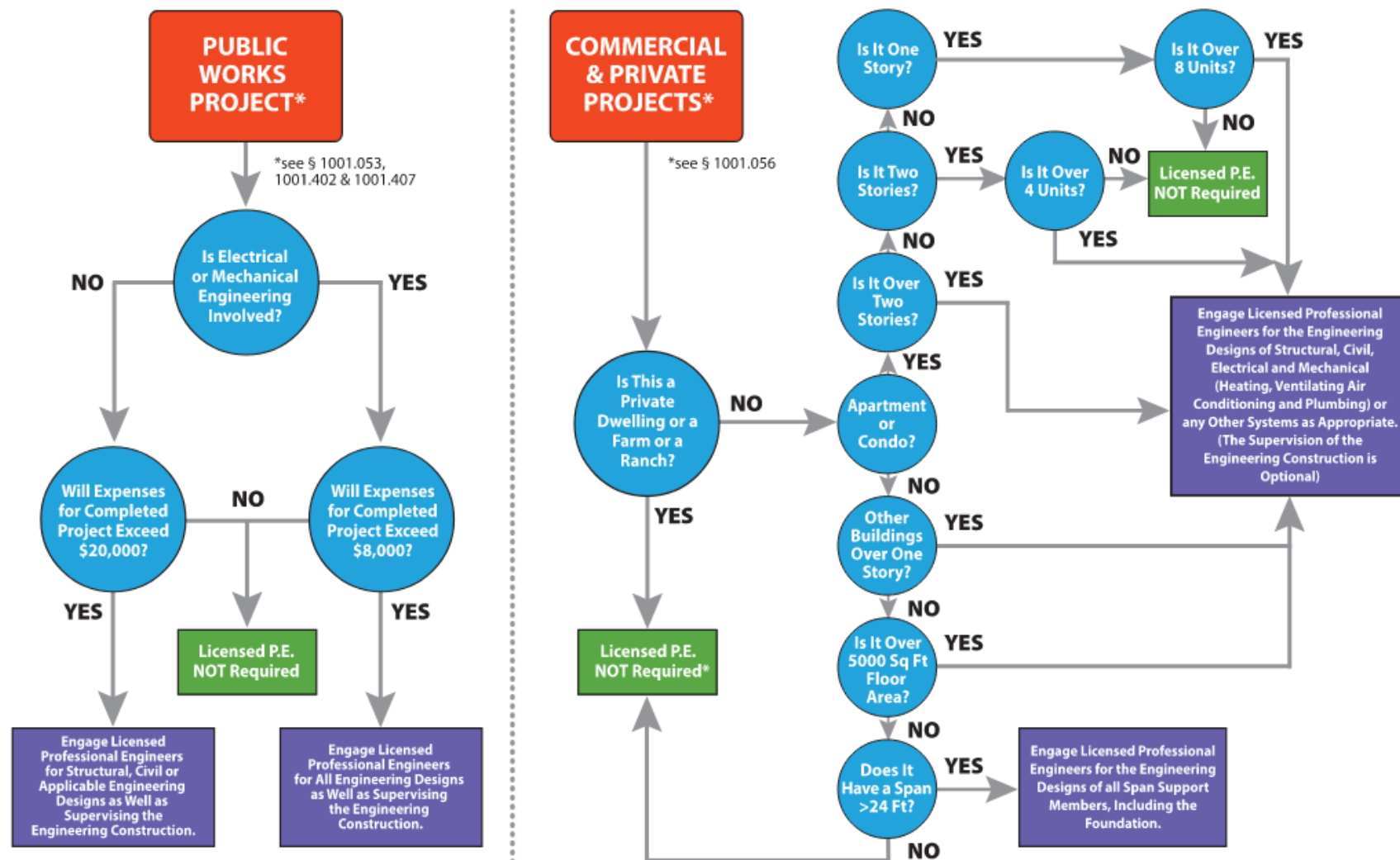
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# State and Local Requirements

- ❑ **Adopt a version of the NEC<sup>®</sup>**
- ❑ **Modify NEC<sup>®</sup> Requirements**
- ❑ **Are often more restrictive**
- ❑ **Define what work must be done by licensed electricians**
- ❑ **Define what work must be permitted**
- ❑ **Define when sealed engineered drawings are required**

# Texas Requirements for Licensed Engineer

When is a **Professional Engineer** required on a project?



This flowchart is intended for guidance purposes only and the Texas Engineering Practice Act and Rules govern final interpretation. Local codes and ordinances may be more restrictive as long as not in conflict with the Texas Engineering Practice Act and Rules.

\* Unless not exempt per 1001.056(c)  
Visit <http://pels.texas.gov/downloads.htm> for a copy of the Texas Engineering Practice Act and Board Rules and download this diagram.

# Texas Department of Licensing and Regulation:

## *Exemptions to Electrician Licensing*

*(a) This chapter does not apply to:*

*(12) The design, installation, erection, repair of Class 1, Class 2, or Class 3 remote control, signaling or power-limited circuits, fire alarm circuits, optical fiber cables, or communications circuits, including raceways, as defined by the National Electrical Code; (Section 1305.003(a)(12) of Texas Electrical Safety and Licensing Act).*

# Local Amendment from the Dallas Electrical Code:

## ***82.16 Certain Work Exempt from Registration.***

*The following performance of work may be carried out by persons who are not registered or licensed electricians:*

*(2) The installation, alteration, or repairing of any wiring or equipment where such wiring or equipment operates at a voltage not exceeding 30 volts and does not include generating or transforming equipment.*



# Local Amendment from the Dallas Electrical Code:

*6. Part I, “General,” of Article 100, “Definitions,” of Chapter 1, “General,” of the 2017 National Electrical Code is amended by amending or adding the following definitions:*

***“Approved.** Approved by the chief electrical code administrator in accordance with chapter 52 of the Dallas City Code [~~Acceptable to the authority having jurisdiction (CMP-1)~~]*



# Local Amendment from the Dallas Electrical Code:

*7. Section 110.2, “Approval,” of Part I, “General,” of Article 110, “Requirements for Electrical Installations,” of Chapter 1, “General,” of the 2017 National Electrical Code is amended to read as follows:*

***“110.2 Approval.** The conductors and equipment required or permitted by this Code shall be acceptable only if approved. Approval of equipment may be evident by listing and labeling of equipment by a Nationally Recognized Testing Lab (NRTL) with a certification mark of that laboratory or a qualified third-party inspection agency approved by the AHJ.*

**AAAARRRRRRGGGGHHHH!!!!**



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# To Avoid Potential Pitfalls, Do Your Homework!

- ❑ Check State and Local Code adoptions
- ❑ Check Local Amendments
- ❑ Check State and Local licensing requirements
- ❑ Check local permitting requirements

# **A Few Things That Might Help**

- ❑ Realize that Intelligent Building technology has outpaced Codes and Standards**
- ❑ Don't assume that AHJs understand PoE technology**
- ❑ Don't assume that AHJs are against use of PoE to power utilization equipment**
- ❑ Keep in mind that AHJs are charged with protecting the public**