

TVSFPE Secretary's Report
1/4/2024

Sign-In Sheet: Attachment 1
Meeting Minutes: Attachment 2
Reference Information: Attachment 3



2024
TVSFPE Chapter Members
& Local Members of the Chapter

Date: 1/4/2024	TOPIC: Code Interpretation and Legal Analysis	Presented by: Leonard Miller
--------------------------	---	--

Member		Chapter Membership	2024 Dues	Signature
Alamri	Fahad	Student	N/A	
Albertsen	Brent	Professional Member		
Alt	Matthew	Local-Only Member		
Altman	Christopher	Student	N/A	
Baity	David	Professional Member	Paid	
Bane	Pamela	Local-Only Member		
Barrack	Sam	Professional Member	Paid	<i>Sam Barrack</i>
Bartek	Dave	Member		
Beasland	William	Local-Only Member		
Beck	Eric	Professional Member	Paid	
Berkley	Bryan	Local-Only Member		
Biggs	Brian	Local-Only Member	Paid	
Begley	Jim	Fellow		
Borum	Al	Professional Member		
Boyll	David	Local-Only Member	Paid	
Branka	Matthew	Professional Member		
Brazzell	Dal	Member	Paid	
Brown	Ethan	Member		
Brown	Harrison	Professional Member		
Buckles	Jack	Local-Only Member	Paid	
Caldwell	Andy	Local-Only Member		
Cantu	James	Student	N/A	
Capito	Nick	Local-Only Member		
Christman	Tom	Fellow		
Cloyd	Tonya	Member		
Coleman	David	Local-Only Member		



2024
TVSFPE Chapter Members
& Local Members of the Chapter


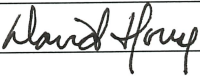


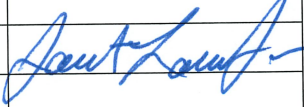

Date: 1/4/2024	TOPIC: Code Interpretation and Legal Analysis	Presented by: Leonard Miller
---------------------------------	--	---

Member		Chapter Membership	2024 Dues	Signature
Coleman	Jay	Local-Only Member		
Cook	Steve	Professional Member		
Copeland	Tom	Professional Member		
Cross	Jeremy	Local-Only Member		
Daniels	Kaitlyn	Student	N/A	
Dee	Tim	Local-Only Member		
Deschambeault	Rob	Professional Member	Paid	<i>[Signature]</i>
Devinney	David	Professional Member	Paid	<i>[Signature]</i>
Doliber	Diane	Professional Member		
Douberty	Edward	Professional Member	Paid	
Douglas	Logan	Member		
Douglas	Ryan	Local-Only Member		
Dungan	Ken	Fellow		
Durham	Justin	Local-Only Member	Paid	<i>[Signature]</i>
Eckroth	Jim	Local-Only Member	Paid	
Edwards	Zachary	Local-Only Member		<i>[Signature]</i> \$40 cash
Felch	Chris	Professional Member		
Fetzer	Jim	Local-Only Member		
Frazer	Scott	Professional Member		<i>[Signature]</i>
Freels	Doug	Professional Member	Paid	
Gardner	Justin	Local-only Member	Paid	
Gilliam	Chris	Local-Only Member		
Gillmann	Colby	Student	N/A	
Goranson	Harvey	Professional Member	Paid	
Greenwell	Jacob	Local-Only Member		
Greer	David	Professional Member	Paid	



2024
TVSFPE Chapter Members
& Local Members of the Chapter

Date: 1/4/2024	TOPIC: Code Interpretation and Legal Analysis	Presented by: Leonard Miller
--------------------------	---	--

Member		Chapter Membership	2024 Dues	Signature
Gump	Jack	Local-Only Member	Paid	
Hall	Kyle	Local-Only Member		
Hartford	Clifton	Member		
Higgins	Tommy	Member		
Henderson	Alan	Member		
Hogan	Scott	Professional Member	Paid	
Houff	CJ	Student	N/A	
House	David	Professional Member		
Hughes	Bradley	Professional Member		
Icove	Dave	Fellow	Paid	
Jenkins	Bobby	Local-Only Member		
Johnson	Dan	Local-Only Member	Paid	
Kasmauskas	Dominick	Professional Member	Paid	
Klima	Steve	Local-Only Member		
Kurr	Amy	Student	Paid	
Landmesser, Jr.	Jimmy	Professional Member	Paid	
Landmesser, Sr.	Jim	Professional Member	Paid	
Larson	Alan	Professional Member	Paid	
Laubach	Eric	Member	Paid	
Livesey	Hannah	Student	N/A	
Massey	Shay	Professional Member	Paid	
Masters	Mike	Local-Only Member	Paid	
McEnergy	John	Local-Only Member		
McNeely	Brett	Local-Only Member		
Migun	Peter	Local-Only Member		
Miller	Leonard	Local-Only Member	Paid	



2024
TVSFPE Chapter Members
& Local Members of the Chapter

Date: 1/4/2024	TOPIC: Code Interpretation and Legal Analysis	Presented by: Leonard Miller
--------------------------	---	--

Member		Chapter Membership	2024 Dues	Signature
Milne	Justin	Professional Member		
Nelson	Steve	Student	N/A	
Oare	Jim	Local-Only Member		
Overton	Monty	Professional Member		
Patterson	Eric	Member		
Payne	Brandon	Local-Only Member		
Phillips	Dennis	Local-Only Member		
Platfoot	Luke	Professional Member	Paid	
Platfoot	Mark	Local-Only Member		
Presnell	Joshua	Local-Only Member		
Presnell	Stephen	Professional Member		
Rippetoe	Blake	Local-Only Member		
Rockwell	Norm	Member		
Rockwell	Scott	Member		
Rogers	Kenny	Member	Paid	
Russell	Kirk	Member		
Russell	Matt	Local-Only Member		
Sellers	J.R.	Professional Member	Paid	
Sellers	Eileen	Professional Member	Paid	
Sharp	Gary	Professional Member		
Shehane	Michael	Local-Only Member	Paid	
Siem	Mark	Member		
Sinasac	Tim	Local-Only Member		
Sipes	Jeff	Professional Member	Paid	
Smith	Patrick	Professional Member		
Smith	William	Member		



2024
TVSFPE Chapter Members
& Local Members of the Chapter

Date: 1/4/2024	TOPIC: Code Interpretation and Legal Analysis	Presented by: Leonard Miller
-------------------	--	---------------------------------

Member		Chapter Membership	2024 Dues	Signature
Solomon	Travis	Local-Only Member		
Spellman	Matthew	Local-Only Member	Paid	<i>Matthew Spellman</i>
Stallions	Will	Student	N/A	
Steneck	Paul	Member		
Sterchi	John	Professional Member		
Summers	Lisa	Local-Only Member		
Tallent	John	Member		
Thornton	Patrick	Professional Member	Paid	
Till	Bernie	Fellow		
Tinsley	Andrew	Local-Only Member	Paid	<i>Andrew Tinsley</i>
Tomecek	Dave	Local-Only Member		
Torbett	Todd	Member		
Tyler	Eric	Member	Paid	<i>Eric Tyler</i>
Tulay	Mark	Student		
VanLandigham	Sara	Member		
Vargas	Leonardo	Student	Paid	
Vuoso	Jerry	Professional Member	Paid	
Waggoner	Wayne	Local-Only Member	Paid	
Walker	Rodney	Local-Only Member		
Walmsley	Channing	Local-Only Member	Paid	<i>Channing Walmsley</i>
Walters	Glenn	Member		
Williams	Jesse	Professional Member	Paid	
Woolard	Geoff	Local-Only Member	Paid	

Durham

Caden

Student

Caden Durham



2024
TVSFPE Chapter Members
& Local Members of the Chapter

Levels of Membership:

- A. Fellow: Fellow is the highest grade of membership in SFPE.
- B. Member (MSFPE): A Member shall be a person who supports the goals and objectives of the Society. Membership starts immediately upon completing the online member application and submission of dues payment.
- C. Professional (PMSFPE): A Professional Member is a graduate of an engineering curriculum of accepted standing and shall have completed not less than four years of practice indicative of growth in engineering competency and achievement, three of which shall have been in responsible charge.
- D. Associate Member:
- E. Affiliate:
- F. Student Member: A Student Member shall be enrolled full-time in an engineering curriculum or an engineering technology curriculum and not have full-time employment.
- G. Honorary Member:
- H. Local-Only Member:



TVSFPE GENERAL MEMBERSHIP MEETING

*Meeting Minutes
January 4th, 2024*

Meeting began with introductions at 6:00 p.m.

REPORTS

Minutes were emailed from previous meeting. Dan Johnson motioned to accept the minutes. Scott Frazer second. Motion carries.

President Tinsley presented the Treasurer's Report. No further comments.

OLD BUSINESS

- No Old Business.

NEW BUSINESS

- Accepting 2024 member dues.
- David Devinney motion for TVSFPE to support/endorse Gary Sharp's presentation at Scouts BSA MBC. Scott Frazer second. Motion carries.
- Dan Johnson motion to fund \$2,500 for *Technical Standards in Engineering* research proposal support. David Ilove second. Motion carries.
- David Devinney will chair the 2024 Scholarship Committee.

Business meeting concluded at 6:33 p.m.

Minutes submitted by: Justin Gardner

SFPE

TVSFPE Chapter Meeting

January 4, 2024

Speaker – Leonard Miller

Tennessee Valley



HAPPY NEW YEAR!

Welcome

- Introductions
- Minutes from November 2023 Meeting

Tennessee Valley

Treasurer's Report

- ORNL FCU Account balances:
 - Checking: \$5,926.60
 - Savings: \$8,127.36
 - Includes the money designated for burn trailer support
- Fidelity Investment Account
 - Total Value: \$512,155.40
- Paypal Account
 - Total Value: \$250

Tennessee Valley

SFFPPE

Old Business

- Pay your 2024 Dues!!!!



Tennessee Valley

New Business

- Future Meetings
 - Any suggestions/interested topics?? Please email them to president@tvsfpe.org
- Seminar – Suggestions for 2024?
- Next Meeting is 2/1/24
 - Speaker is TBD.
 - Location: Mimi's Cafe
- Scholarship Committee Chair/Member Volunteers?
 - Amount approval deferred to February
- Support for Gary Sharp presentation at Scouts BSA MBC
- Research Proposal Presentation
- Other items??

Tennessee Valley

SFFPPE



SPEAKER

Tennessee Valley



Technical Standards in Engineering

Date: November 9, 2023



Problem: Academic institutions nationwide are expected to provide basic technical standards education and training to engineering students; however, they are not positioned or incentivized to incorporate such education into their academic programs. As a result, the nation's engineering workforce is under-prepared to meet the growing safety challenges of today and to prevent new and ongoing risks and hazards to the public. While a piecemeal resolution approach has been used the past few decades to increase technical standards education in single groups, programs, and academic departments, the gap between the supply and demand of engineering students, new hires, and professional engineers with licensure who are properly educated on the basics of technical standards is increasing rapidly.

Solution: The *Technical Standards in Engineering Program* is a revolutionary initiative that simplifies and combines prior individualized efforts to create a new golden standard for basic technical standards education in a simple and efficient package that is adaptable to any engineering discipline. It also incorporates multiple open-source curricula that have been developed by separate standards development organizations and universities into one concise package.

Beneficial Outcomes

- Shrink gap between U.S. and foreign-born engineers' standards knowledge
- Reinforce the definition of "engineer"
- Produce the workforce
- Lessen the academic burden
- Unite academia and industry
- Consolidate various open-source programs
- Continuing education credits

Program Objectives

- Canvas course
- Literature update
- Advance engineering profession and professional licensure
- PowerPoint presentations
- Facilitator team
- Increase involvement in standards committees

Uniqueness

- Free
- Open Source
- Basic Content
- Strategic
- Asynchronous
- Customizable
- Discipline specific
- 3X Industry Review
- Plug and play

Why Us: The program is led by **Amy Kurr** and **Jimmy Landmesser, Jr.**, two technical standards industry-focused engineers with strong ties to academia. Combined they have 16 years of experience working with technical standards on testing and certification, project validation and verification, engineering design changes, new project proposals, building design, system installation and modification, and professional licensure. Additionally, they recruited support from various professional engineering groups, standards development organizations, and companies to support in the following positions: technical content development, curriculum review, digital content development, champion, and financial support.

Program Structure: The program structure follows that of the CyberAmbassadors Program – a national effort to increase communication, teamwork, and leadership among interdisciplinary teams in STEM - science, technology, engineering, and math which was funded by the National Science Foundation (Award #1730137) and has reached international success in the past 5 years since its introduction.

Creative Commons License: This work is licensed under the Creative Commons Attribution-ShareAlike 4.0 International (CC BY-SA 4.0) License. To view a copy of the license, visit

<https://creativecommons.org/licenses/by-sa/4.0/legalcode>

Item	Description	Justification	Total
Materials and Supplies UT Canvas Catalog Fees	Registration for 45 individuals to complete the course (\$9) through the UT Canvas Catalog system.	- Full scale pilot program - Coincides with platform for reviewers - Increase program awareness among students and industry	\$ 450.00
Printing	Laminated posters for conference presentations (\$100: two posters), 200 business cards/QR cards for publicity (\$50), paper printing for workshops (\$150).	- Increase workshop effectiveness - Increase program awareness among general public - Primary form of marketing (business cards)	\$ 300.00
Consulting Reviewer Support	Thank you cards/gifts/shipping cost (\$25) for reviewers (30). Reviewers are asked to commit 20+ hours over a 6-month period with an option to review at future stages in the project.	- Content enhancement - Increase program awareness among industry, national labs, and general public	\$ 750.00
Travel 2024 Capstone Senior Design Conference June 3-5, 2024 Knoxville, TN	Conference registration and per diem for two people.	- Publish paper "History of Technical Standards in Engineering Across the United States of America" - Poster presentation - Technical workshop/pilot program (30) "Integrating Technical Standards into the Classroom" - Collect feedback (20) for Revision 2 - Increase program awareness among senior design educators (100)	\$ 1,000.00
Total			\$ 2,500.00
2024 American Society for Engineering Education Conference June 23-27, 2024 Portland, OR	Conference registration, airfare, hotel, car rental, and per diem for one person.	- Publish paper "Technical Standards in Engineering Education: Present Challenges Across Professional Sectors" - Technical workshop/pilot program (30) "Integrating Technical Standards into the Classroom" - Collect feedback (70) for Revision 2 - Increase program awareness among largest gathering of engineering educators - Network with university engineering programs/librarians/standards development organizations	\$ 3,000.00
Total - With ASEE			\$ 5,500.00



Code Interpretation and Legal Analysis

Figure 2.0

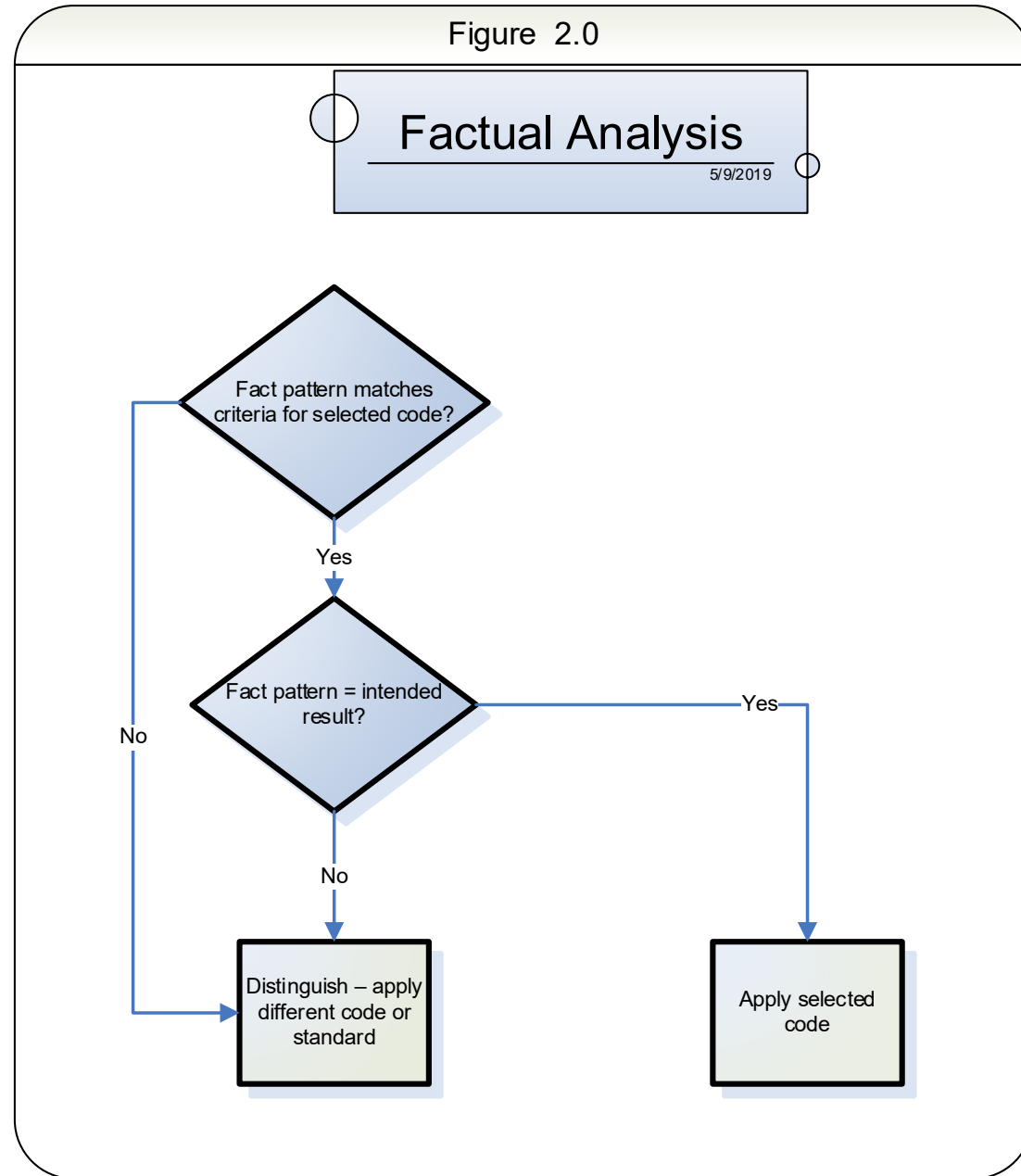


Figure 2.1

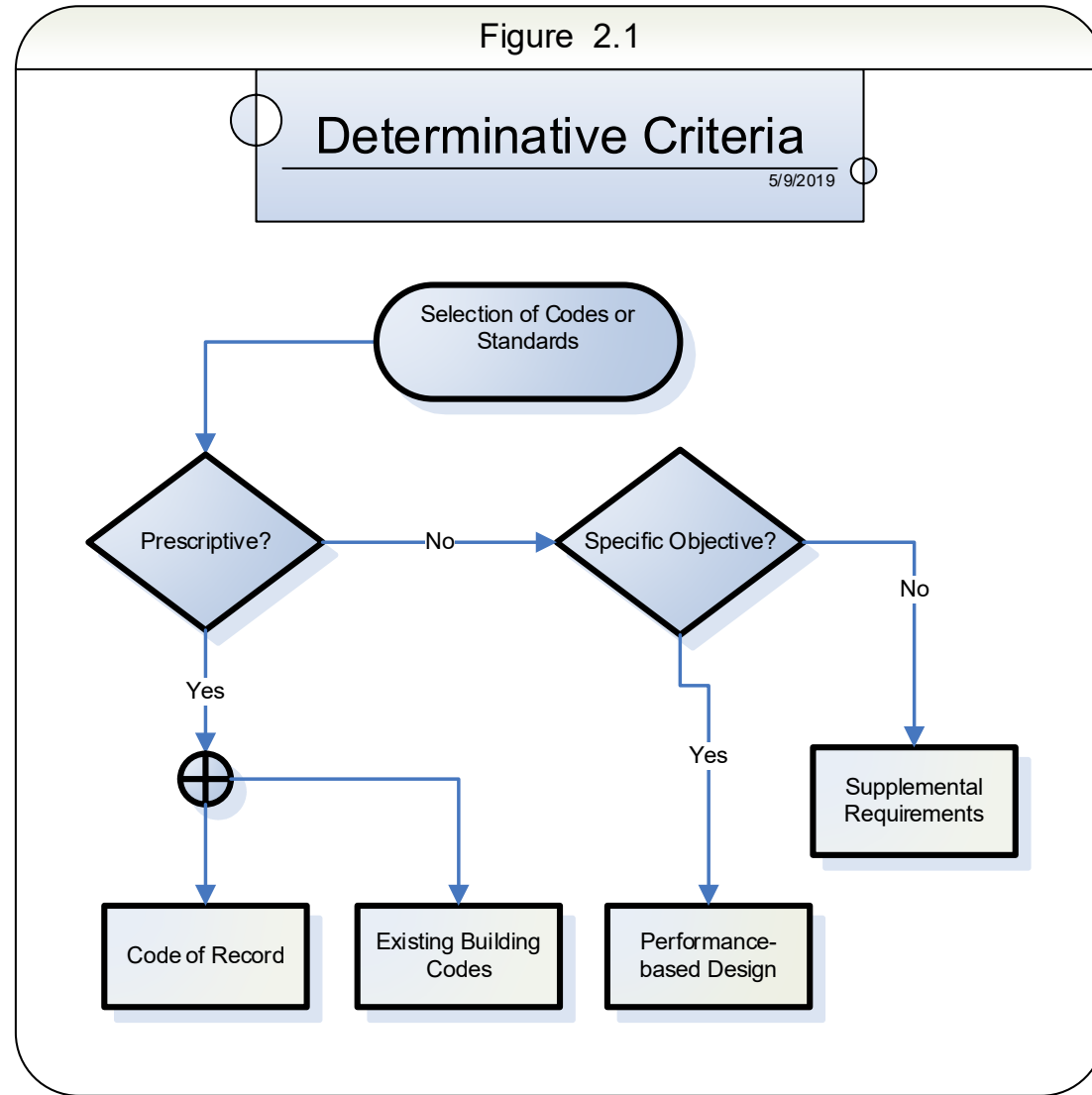


Figure 2.2

Application of Codes and Standards

5/9/2019

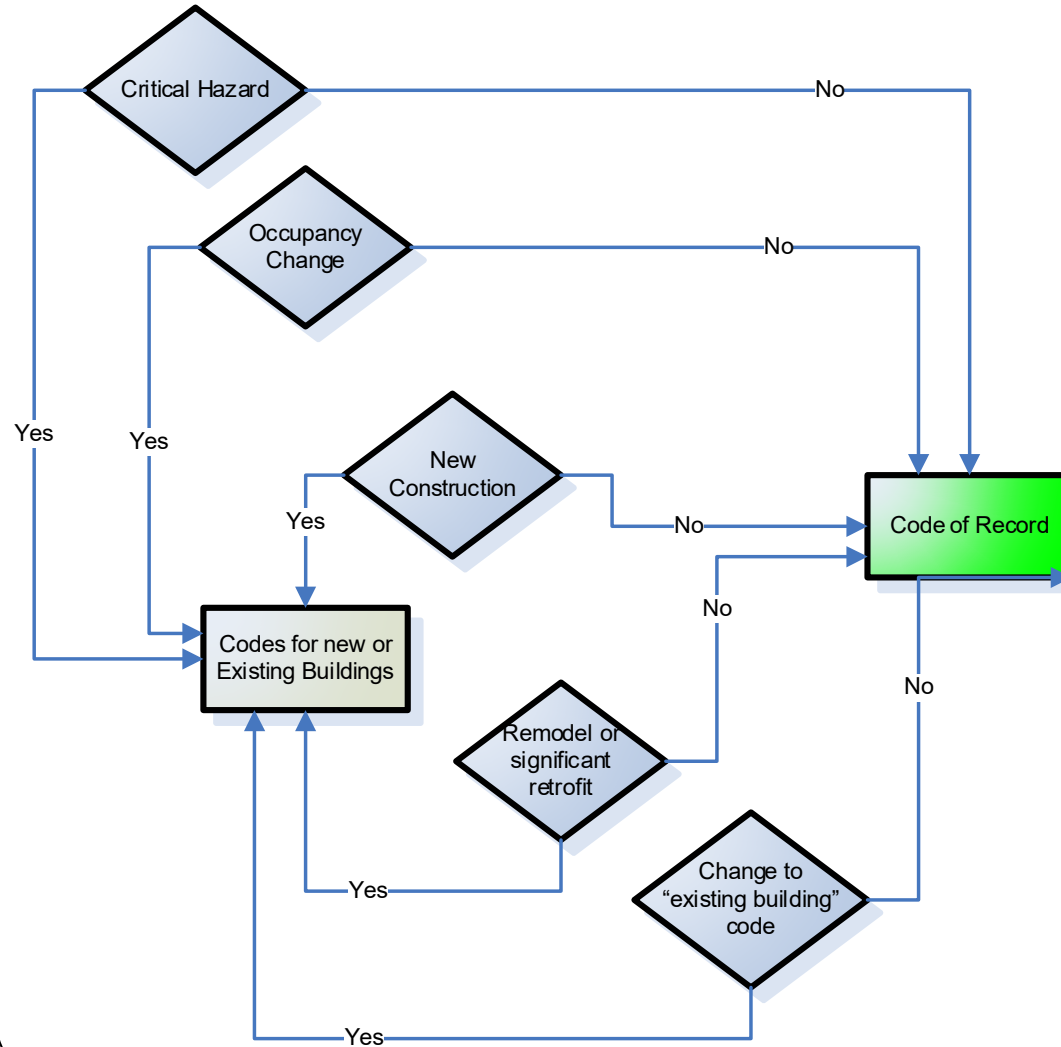
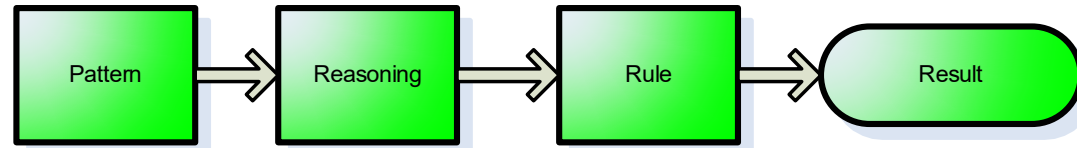


Figure 2.3

Interpretation Summary

5/9/2019



Pattern

Start with the Fact Pattern

Reasoning

Reasons & public policy for safety
Selection of Codes & Standards

Rule

Statement of Rules Applied

Result

Standard of Care established

Figure 7.0

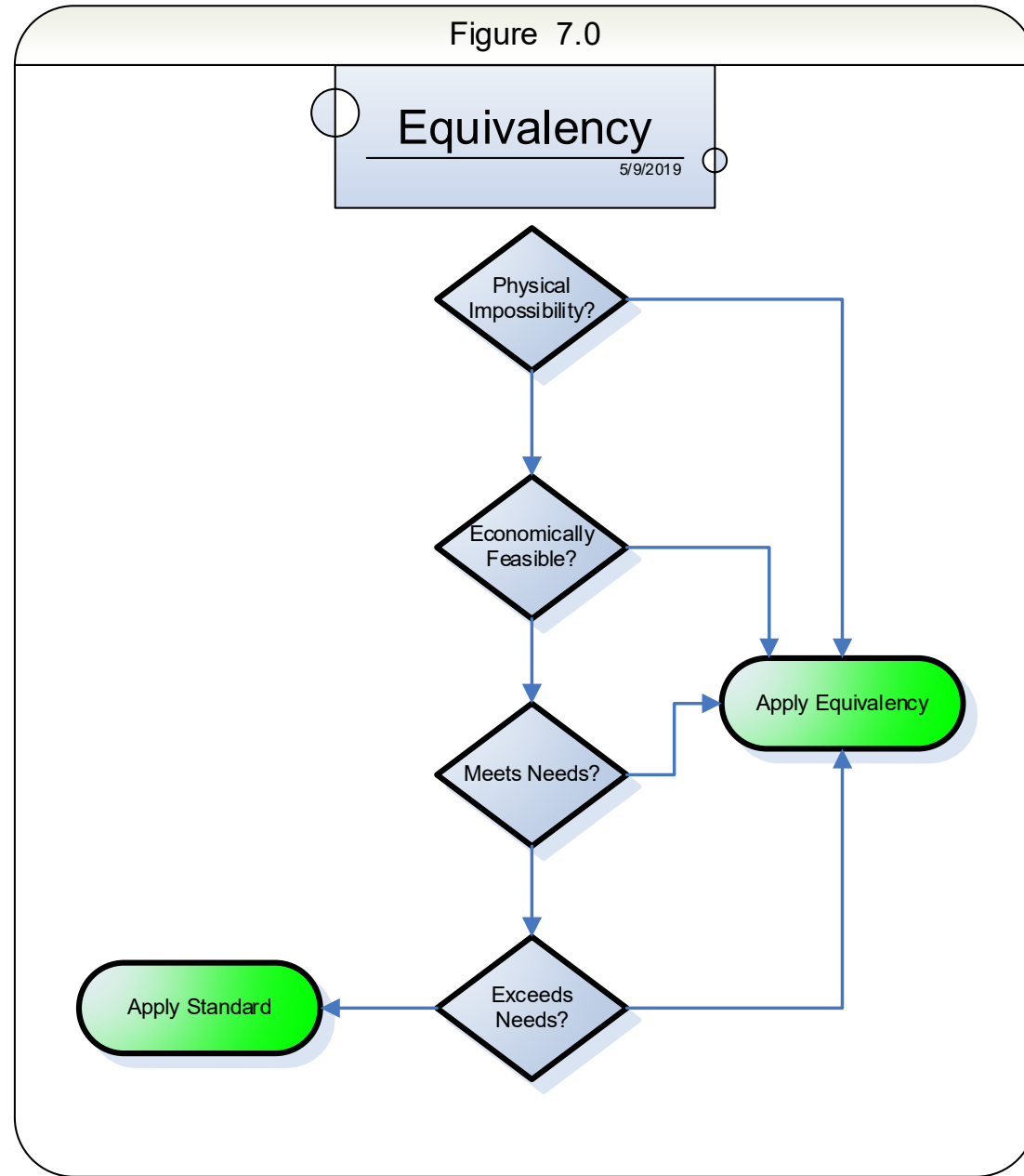


Figure 8.0

Hierarchy of Authority

5/9/2019

1

Life Safety Code
Building Code
Fire Alarm Code
Hazard-specific Standards

Primary Authority

State Fire Marshal
Local Fire Marshal
Regulatory Agencies

2

Future Code Editions
FSES
NFPA Formal Opinion

Secondary Authority

Engineer of Record
Insurance Underwriter

3

DICTA
White Papers

Persuasive Authority Foreign Authority

Voluntary Trade Associations

Figure 9.0

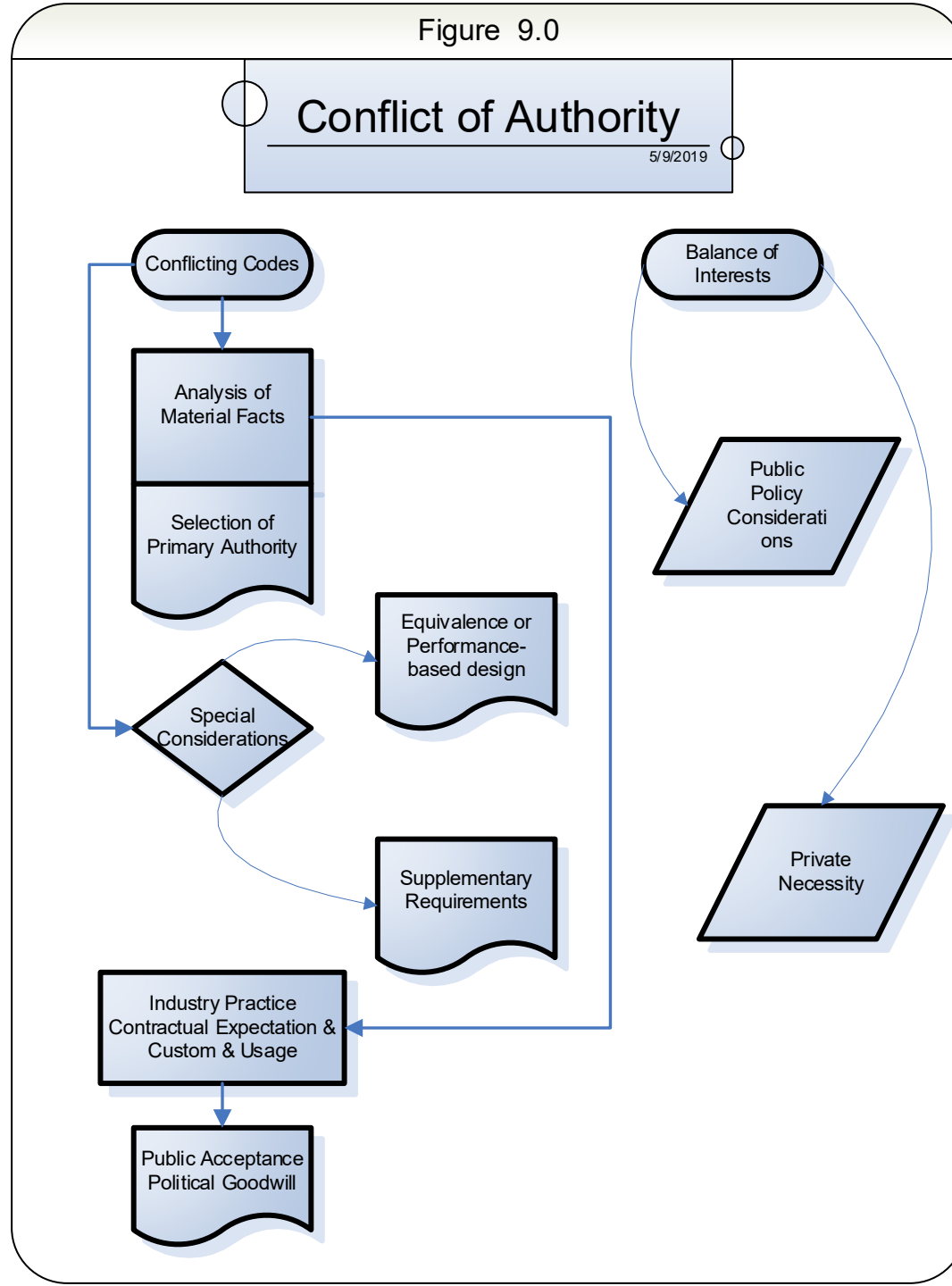


Figure 11.1

Legal Effect of Contractual Obligations and Procedures

5/9/2019

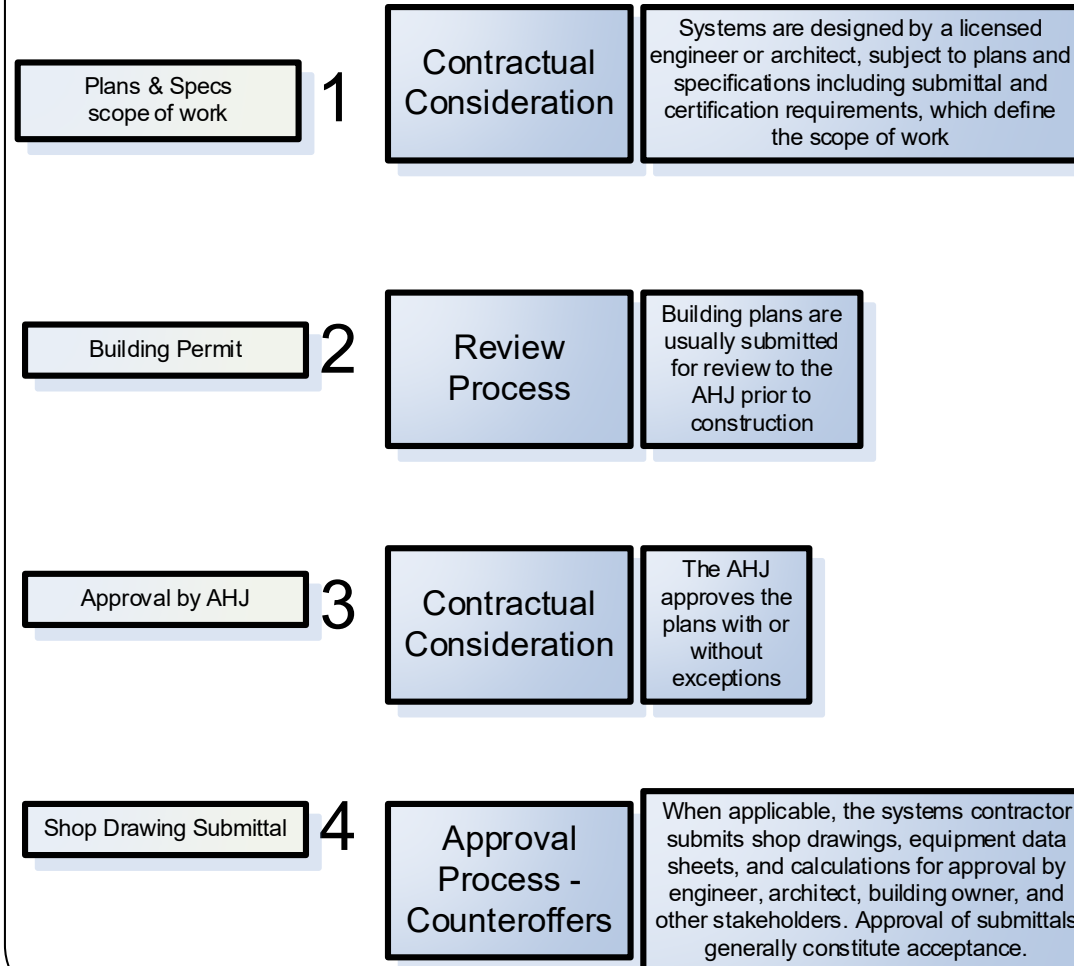


Figure 13.1

Hierarchy of Enforcement Authority

5/9/2019

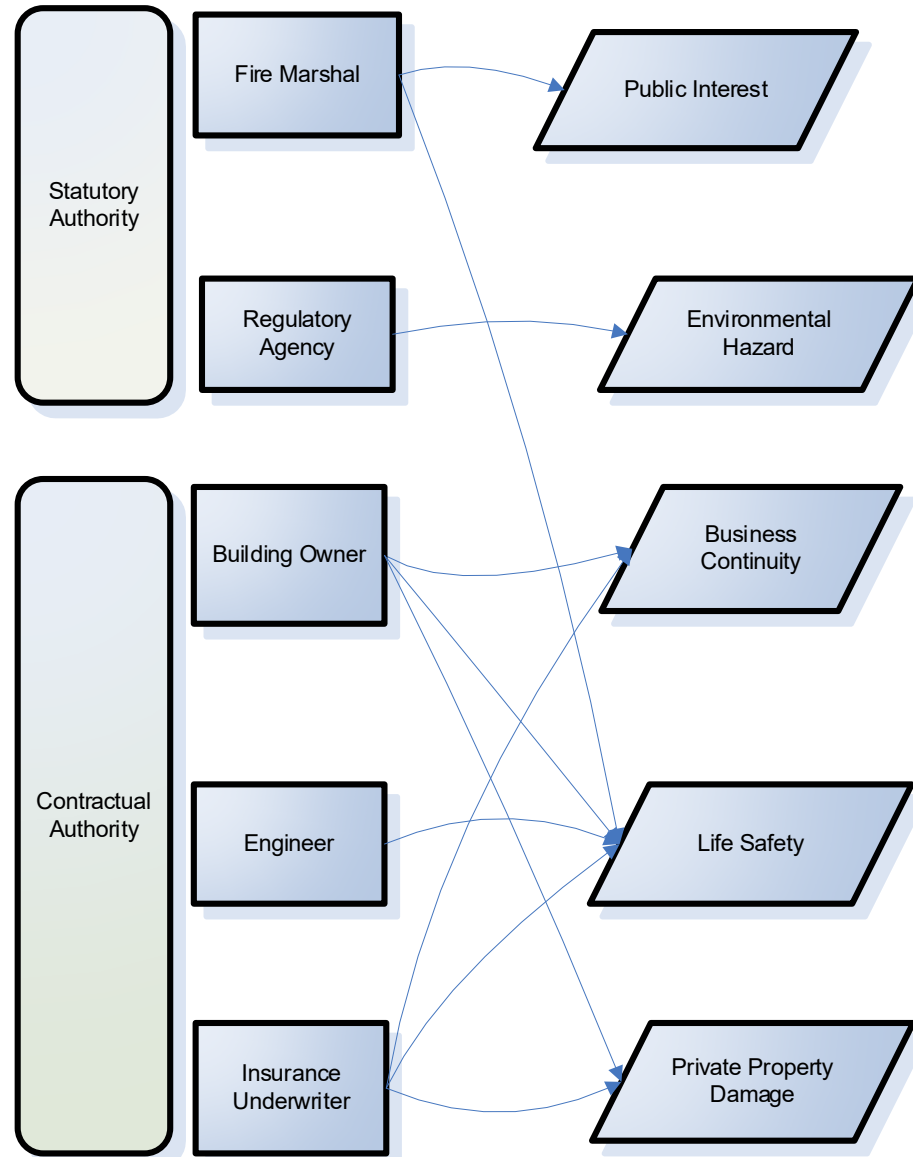


Figure 15.1



Prima Facie Case

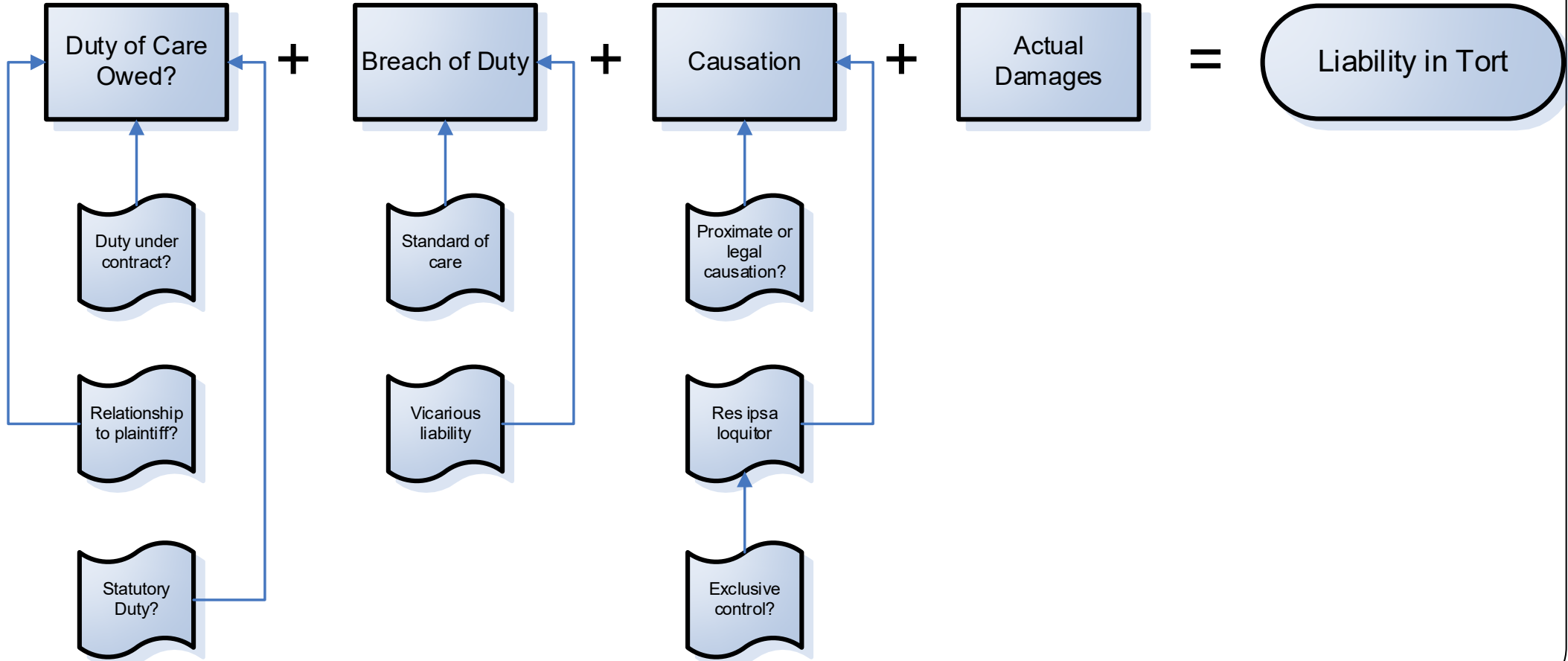


Figure 15.2

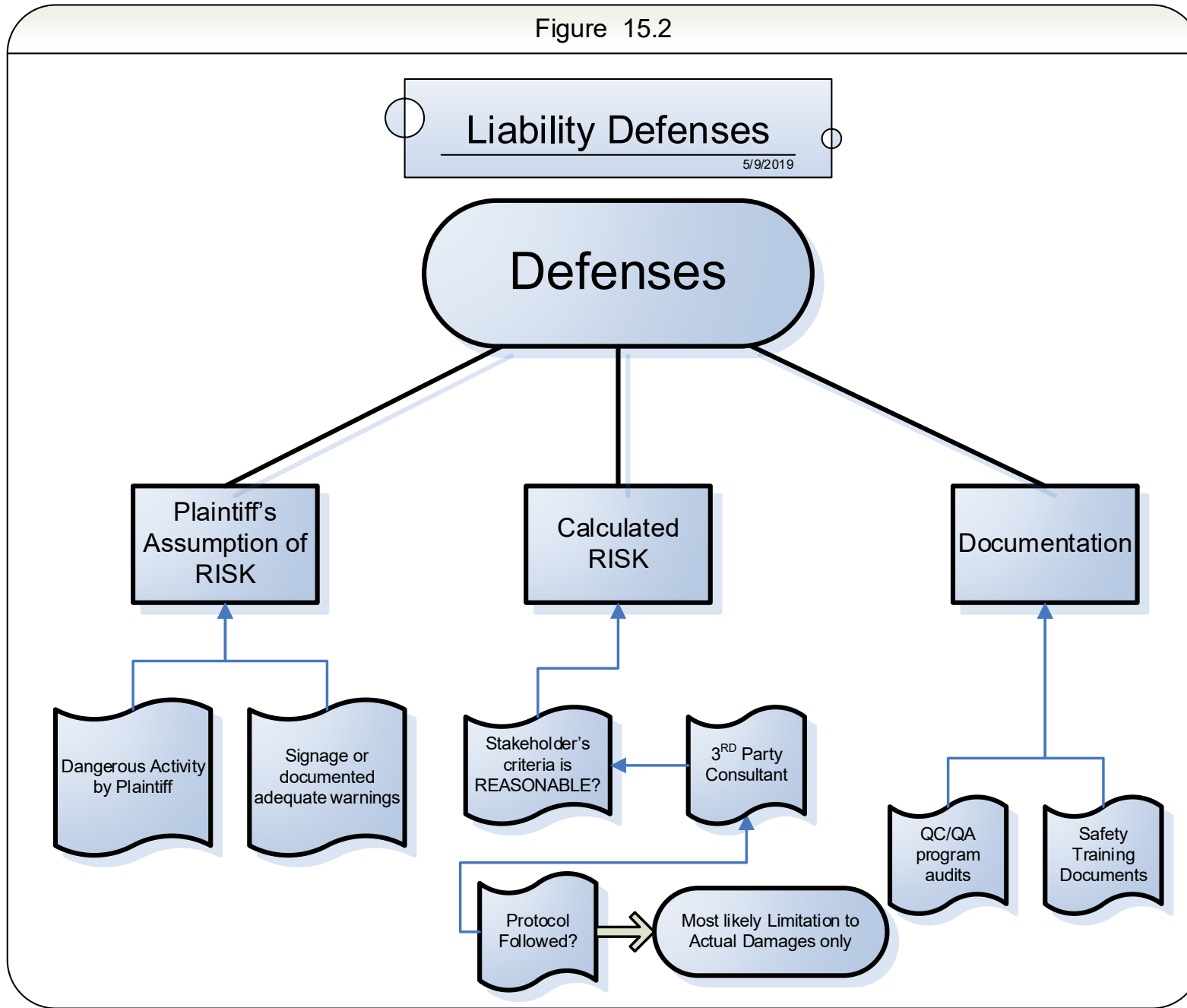


Figure 18.0

Contractual and Legal Obligations

5/9/2019

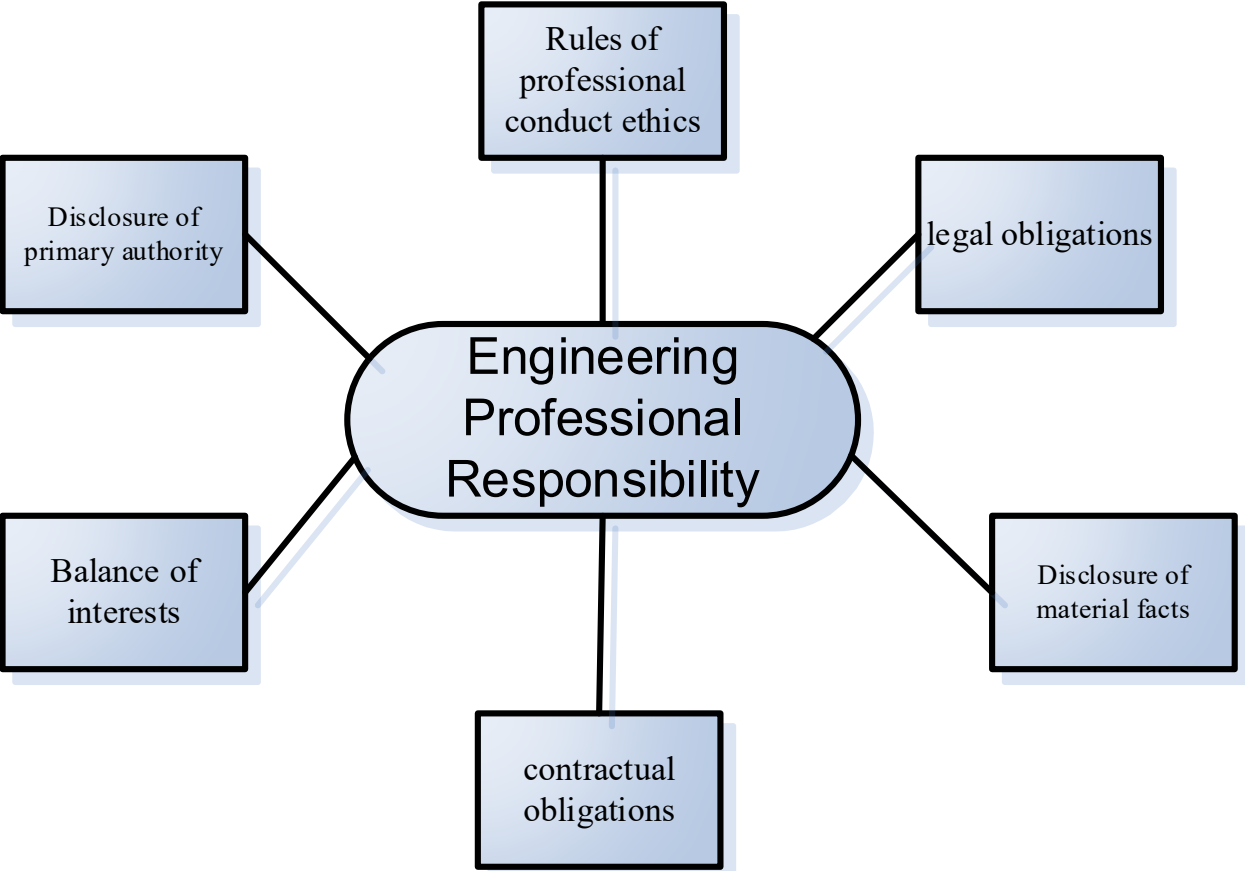


Figure 18.1

