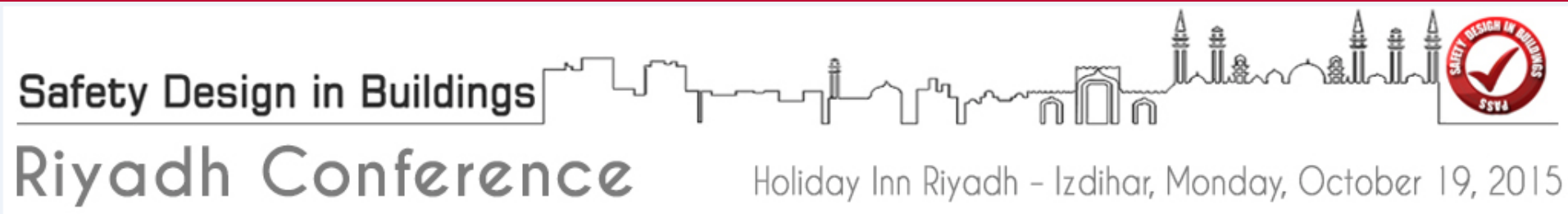




Importance of Conformity and Certification in Life Safety

Riyadh, KSA
October 19, 2015

Jonathan J. Gonzalez



Course Description

Introduction to life safety for building materials and systems. The presentation will focus on understanding the stakeholders in the built-environment, importance of conformity, certification regional best practices, learning lessons and life safety.

Presenter

Jonathan J. Gonzalez

Project Engineer, UL -- Underwriters Laboratories Middle East

My Experience started as a Product Safety Engineer in Fire Protection for Building Materials and Systems at Underwriters Laboratories' Global Headquarters in Northbrook Chicago, USA and have been in the life safety industry since. I have has been involved in numerous certifications projects, while working with international, building and certification standards. I hold a Bachelors in Construction Engineering from North Dakota State University and have recently moved to the Middle East region to UL's regional headquarters in Dubai.

Learning Objectives

- 1. Importance of Certification**
- 2. Standards and Codes**
- 3. Stake Holders in the Built Environment**
- 4. Learning Lessons**

The purpose of this presentation is to convey technical knowledge to the conference participants.

The presentation also contains slides with text that summarises the content of the presentation and the main learning objectives.

These may be used to update CPD records for relevant organisations including the Chartered Institute of Building (CIOB).

IMPORTANCE OF CERTIFICATION

Understanding Certification

Certification is the practice in which consumer product(s) undergo performance/quality testing to meet or exceed safety qualifications as specified by regulations, government and building codes officials, standard committees etc.



Third Party Certification

- **Third Party Certification is required by the regulating bodies**
- **Third Party tests and certifies the products**
- **Third Party, upon certification of product, allows use of trademark on product to indicate product compliance**
- **Certification requires factory visits and ongoing QA/QC program**
- **Third Party label used by building regulators to determine code compliance**



Importance of Certification

The importance of certification and conformity



Increases Safety

Improves QA/QC

Monitors and Controls



STANDARDS AND CODES

Product Requirements

Codes

- Minimum construction requirements
- Indicates where and when to install product

Standards

- How to evaluate/test product
- Indicates non-compliance



U.S. Codes - Development Organizations

International Code Council (ICC)

**International Association of Plumbing and Mechanical Officials
(IAPMO)**

National Fire Protection Association (NFPA)



Standards

- **Contain requirements for safety and performance**
- **Reflect the input of interested parties**
 - officials, manufacturers, end users
- **Accreditation (ANSI)**
 - Accredits standards developers
 - Ensures accurate standards
- **Code References**



Standards' Writers

American National Standards Institute (ANSI)



American Society for Testing and Materials (ASTM)



Canadian Standards Association (CSA)

National Sanitation Foundation (NSF)



American Society of Mechanical Engineers (ASME)

American Water Works Association (AWWA)



International Association of Plumbing and Mechanical Officials (IAPMO)

National Fire Protection Association (NFPA)



Underwriters Laboratories Inc. (UL)



STAKE HOLDERS IN THE BUILT-ENVIRONMENT

Stake Holders For Built Environment

Designer

Manufacturer

Installer

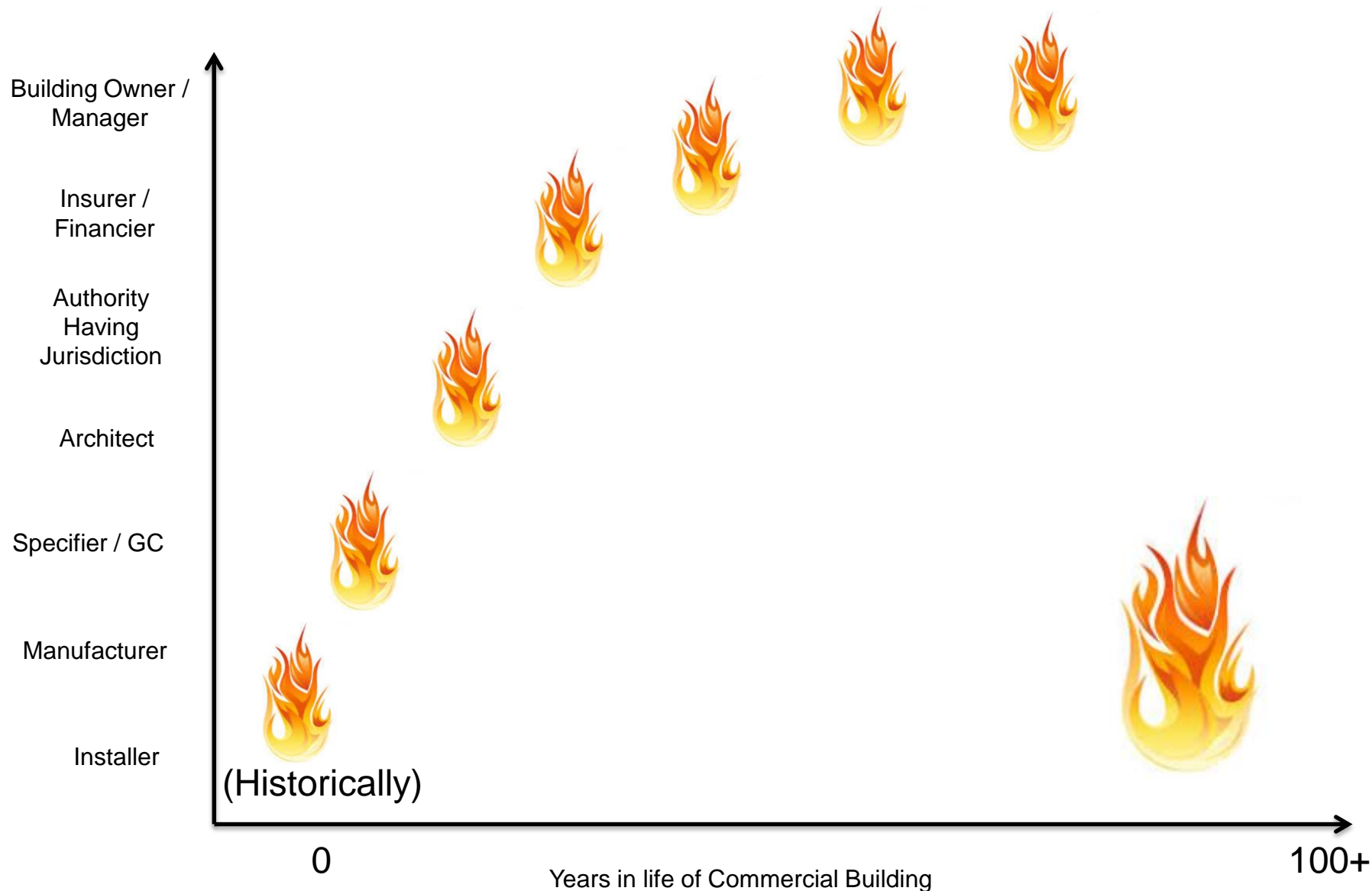
**AHJs
(QCD/FPD)
& insurance**

User

**Maintenance/
Facilities**



What does this mean for Building Safety & Security?



LEARNING LESSONS

Certification Databases (Listing)



ONLINE CERTIFICATIONS DIRECTORY

BEGIN A BASIC SEARCH

To begin a search, please enter one or more search criteria in the parameters below.

| | |
|--|--|
| Company Name (options) | <input type="text" value="abc company"/> |
| City | <input type="text" value="nuremberg"/> |
| US State | <input type="text" value="Select a state"/> |
| US Zip Code | <input type="text"/> |
| Country | <input type="text" value="GERMANY"/> |
| Region | <input type="text" value="Select a region"/> |
| Postal Code (non-US) | <input type="text"/> |
| UL Category Code (options) | <input type="text"/> |
| UL File Number (help) | <input type="text"/> |
| Keyword | <input type="text" value="Fire Glass"/> |
| <input type="button" value="SEARCH"/> <input type="button" value="CLEAR"/> | |



Publically viewable.



Searchable



Company



Region



Product type/Standard



File/Certificate Number



Fire rating/performance



Keywords



Online Fire Service Training – Worldwide Partners

www.ULfirefightersafety.com



Lightweight Collapse



Horizontal Ventilation



Basement Fires



PV Firefighter Safety



Vertical Ventilation & Suppression



Effective Tactics with FDNY and NIST



Fire Service Worldwide: Get Involved



ULfirefightersafety.com
(6,000+ hits per month)

@UL_FSRI

facebook/ulfirefightersafety

youTube/ulfirefightersafety



Modernfirebehavior.com
(30,000 hits per month)

(1.2M Impressions)

(5.4M Impressions)

(264,000+ view 1.1M min. watched)





Jonathan J. Gonzalez | Project Engineer | UL
T:+971 52 9535931 | jonathan.gonzalez@ul.com

gar.y.knef@ul.com

Or visit www.ul.com



THANK YOU!