Faculty and Credit Information

Faculty

Mr. Joseph Hauf, PE is a licensed professional engineer in multiple states in the Mid-Atlantic and Southeast US. He made his start in life safety engineering with Rolf Jensen & Associates, Inc. out of their Washington, DC office in 1988, while studying in the Fire Protection Engineering program at the University of Maryland. Mr. Hauf has over 29 years of experience in life safety and fire protection engineering for complex, high-rise, mixed-use projects in various jurisdictions in the United States and abroad. His extensive experience with smoke control systems and their associated infrastructure over that time paved the way for development of this insightful course since assuming his national educational outreach role as Vice President of Engineering Services for Conquest Firespray, LLC in August of 2015.

Continuing Education Credit Information

This webinar offers 6.0 PDHs to professional engineers and 6.0 HSW continuing education hours to architects licensed in all states.

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The American Institute of Architects Continuing Education System has approved this course for 6.5 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

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Complying with Fire, Building and Mechanical Codes
Live, Interactive Webinar - Wednesday, March 10, 2021

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Learning Objectives

You'll be able to:

Discuss fundamentals of fire resistance.

Review ventilation requirements under building and mechanical codes.

Focus on fire code requirements for ventilation systems.

Consider the limitations of ventilation system designs.

Explore options for smoke control in ventilation systems.

Examine alternate means for fire-rated ducts and enclosures.

Discuss methods of stairwell pressurization through AC 179.

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Complying with Fire, Building and Mechanical Codes:

Focus Fire Rated Ducts & Enclosures

Live, Interactive Webinar - Wednesday, March 10, 2021

Understand the fundamentals of fire resistance and examine building code ventilation requirements

Discuss mechanical code ventilation requirements

Explore NFPA fire code criteria and learn about test standards

Examine fire-rated ventilation ducts for smoke control

Discuss AC179 Scope and associated fire-rated ventilation duct configurations from ISO and ASTM test standards

Continuing Education Credits

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6.0 PDHs

AIA
6.0 LU|HSW

Architects
6.0 HSW CE Hours

International Code Council
.6 CEUs (Fire)

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Agenda

Presented by Mr. Joseph Hauf, PE

Building Code Criteria
Fundamentals of fire resistance:
- Symmetrical vs non-symmetrical
- Continuity
- Test standards

Ventilation requirements:
- Applications
- Penetrations
- Shaft extensions

Limitations of Designs:
- Built fire resistive rated assemblies vs product assemblies
- Listings/approved designs

Conclusion:
- Avoiding common mistakes
- Q&A

Mechanical Code Criteria
Fundamentals:
- Differences between grease duct and fire rated ventilation duct
- Industry jargon

Ventilation requirements:
- Hazardous exhaust applications
- Penetrations with and without fire dampers
- Temperature control by insulation and clearance

Limitations of designs:
- Damper compatibility
- Accessories

Conclusion:
- Q&A

Fire Criteria Focus
Fundamentals NFPA 1 and 101:
- Symmetrical vs non-symmetrical
- Continuity
- Test standards and industry jargon

Ventilation requirements NFPA 90A and 96:
- Applications penetrations
- Zero clearance and shaft protection

Limitations of designs:
- Hanging systems
- Firestopping designs

Conclusion:
- Q&A

Smoke Control System Considerations
Fundamentals:
- IBC 909/IMC 513
- NFPA 92 and 90A
- Fire rated ventilation duct for four methods of smoke control

Ventilation requirements:
- Duct protection
- In-line fan protection
- Power and control protection
- Dedicated vs non-dedicated equipment

Limitations of designs:
- Smoke modes/sequences
- Fireman's over-ride panels

Conclusion:
- Q&A

Alternate Means for Fire-Rated Ducts & Enclosures
Fundamentals of equivalent fire resistance:
- Test standards and acceptance criteria
- Prescriptive compliance
- Alternative methods (Equivalence)
- Code modifications (Variance)

Limitations of designs:
- Symmetrical vs non-symmetrical
- Continuity
- Hose stream testing
- Temperature control

Conclusion:
- Avoiding common mistakes
- Q&A

Stairwell Pressurization through AC179
Fundamentals:
- AC179 scope and associated fire rated ventilation duct configurations | from ISO and ASTM test standards
- Shaft replacement mean symmetry protection

Alternative protection for fire damper omission
Limitations of designs:
- Evaluation service reports and their associated IAS tested designs
- Analyzing probable fire scenarios for penetrations with and without fire dampers
- Following the most stringent criteria when multiple sections apply

Conclusion:
- Avoiding pressurization design to failure scenarios
- Q&A

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