

SOUTHERN APPALACHIAN
BUILDING & FIRE CODES
CONFERENCE



December 2 & 3, 2024

There is something for everyone! Classes will include Fire, Electrical, Mechanical, Plumbing, Building and Residential Code training. All classes are approved by ICC & TN SFMO and count toward your required preferred provider CEUs.

Join Us at the Park Vista, Gatlinburg, TN

Come join us in Gatlinburg, TN and take advantage of this great education and networking opportunity in conjunction with the Southern Appalachian Codes Conference, a continuation of the annual TFACA Conference. Plus, enjoy the Christmas season in the Smokies!

NEW LOCATION

The PARK VISTA HOTEL

705 Cherokee Orchard Rd, Gatlinburg, TN 37738

Hotel: (865) 436-9211



BOOK YOUR ROOMS NOW: Discounted rate valid through **NOVEMBER 1!**

Room rates are as follows:

\$110 per night for Sunday through Tuesday, all hotel rooms.

Mention Southern Appalachian Code Conference, Booking Code #APP
 Use Booking Link:

<https://www.hilton.com/en/book/reservation/deeplink/?ctyhocn=GKTPVDT&groupCode=CDTAPP&arrivaldate=20241201&departuredate=20241203&cid=OM,WW,HILTONLINK,EN,DirectLink&fromId=HILTONLINKDIRECT>

The cost for lodging is separate from class registration and must be paid to The Park Vista Hotel. Students will provide their own meals.





Please use the Acadis links below to register for each desired course.

If you **HAVE** taken any TFACA course in the past, please register via the following link:

<https://acadis-portal.tn.gov/acadisviewer/login.aspx>

If you **HAVE NOT** taken a TFACA course in the past, please create a student account via the following link. Once your submission is *reviewed and processed* you will receive an email from Acadis with a link to create your password. This will allow you to access to our student registration database. If an out of state registration, when prompted for your agency choose “Out of State Agency”, this will be listed in alphabetical order.

<https://tdci.acadisonline.com/acadisviewer/WebForms/Public/UserDataCollector.aspx?ID=85BD5E08-F325-44C6-B225-33989B366D8C>

If you have any questions about registration, contact TFACA office at: (800) 747-8868 or Brittany.Kerlee@tn.gov

Please pay close attention to the conference schedule, included below, when registering for classes to avoid registering for overlapping classes.

The tuition cost per student per class is as follows:

4 hr. class: \$40

3 hr. class: \$34

2 hr. class: \$28

1 hr. class: \$22



Conference tuition payments must be mailed in, make checks payable to TFACA and send to:

Tennessee Fire and Codes Enforcement Academy
500 James Robertson Parkway
Nashville, TN 37243





Course Topics Include:

Photovoltaic Systems & Firefighter Safety

Electric Vehicle Charging Systems

Introduction to 2018 IRC Mechanical Codes

The Future of AI in Building Department's

Innovative Fireproofing Solutions: Code Compliance with Passive Protection

Emergency Egress Lighting

Electrical Service Change Inspections: For the Not So Electrically Inclined

Inspection & Resolution of Venting Problems

Building Tall: High Rise Safety

Essential Electrical Service Specifications

Mass Timber Connection

Continuous Load Path

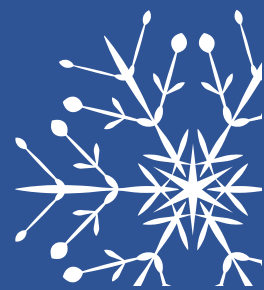
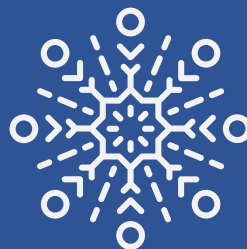
Deck Construction

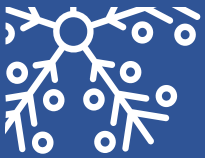
From Blueprints to Bricks: Fire Safety During Construction & Demolition

Understanding Grounding & Bonding

Residential Framing Issues

Fire Inspection for Places of Religious Worship





Course Descriptions

Monday December 2nd Classes

Photovoltaic Systems & Firefighter Safety, Presented by Jeff Fecteau
Monday, 8am-10am, \$28

- This course examines PV array fire experiments, Certification Requirements, Applicable Safety Standards, Attachment Requirements, Fire Classification, Required Markings, Required Roof Access, Required Pathways. At the completion of this class, students should have the ability to recognize the safety concerns regarding Photovoltaic systems. The course objectives include:
 - A better understanding of the applicable safety concerns for PV systems.
 - A better understanding of how PV systems are installed including PV circuits under the roof deck and associated wiring methods.
 - A better understanding of PV system marking and Rapid Shutdown.

Electric Vehicle Charging Systems, Presented by Jeff Fecteau
Monday, 10am-12pm, \$28

- This course covers the 2020 National Electrical Code requirements for the installation of Electric Vehicle Charging Systems. At the completion of this class, students should have the ability to recognize the installation and code requirements of the above listed electrical systems. The course objectives include:
 - A better understanding of Article 625 of the 2020 NEC.
 - A better understanding of how to use the NEC and UL Product iQ to locate code requirements.

Introduction to 2018 IRC Mechanical Codes, Presented by TFACA
Monday, 8am-12pm, \$40

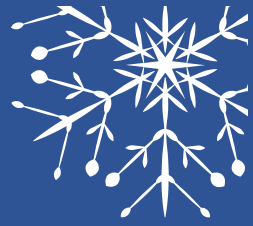
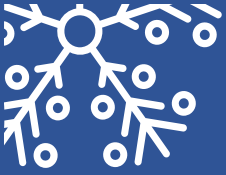
- To provide the student with a practical knowledge of the Mechanical codes in the 2018 International Residential Code for effective inspections and plan review. The course objectives include:
 - Familiarize students with the 2018 IRC mechanical requirements.
 - Instruct students on proper updated inspection techniques.
 - Help students who are new to the industry understand the terms and concepts used in the 2018 IRC mechanical requirements.

The Future of AI in Building Departments, Presented by Vivid GovTech
Monday, 8am-10am, \$28

- This course explores the transformative potential of artificial intelligence in enhancing the efficiency, accuracy, and effectiveness of building department operations. Participants will learn about AI applications in areas such as permit processing, code compliance, inspections, data analysis, and customer service. The course will also cover the ethical considerations, challenges, and best practices for integrating AI technologies, alongside case studies of successful implementations. Ultimately, this course aims to equip professionals in building departments with the insights and skills needed to leverage AI for improved decision-making and resource management in an evolving urban landscape.

Continues on Next Page





Course Descriptions

Monday December 2nd Classes

Innovative Fireproofing Solutions: Code Compliance with Passive Protection, Presented by Chris Birchfield, FM Global
Monday 10am-12pm, \$28

- This 2-hour course provides an overview of the latest advancements in Intumescent Coatings and Fire-Retardant solutions for structural steel, structural and engineered wood, upgrading firewalls, interior furnishings, fabrics, plastics, and fiberglass.

Emergency Egress Lighting, Presented by TFACA
Monday, 1:30pm-2:30pm, \$22

- This course presents the basic principles and requirements from Chapter 10 of the 2018 International Fire Code and the 2018 International Building Code. The concepts of Means of Egress Illumination will be discussed. This course informs fire and building inspectors of the requirement and allows them to correctly inspect one of the most critical aspects of their role.

Electrical Service Change Inspections: For the Not So Electrically Inclined, Presented by Margaret Knapp
Monday, 2:30pm-4:30pm, \$28

- This course is for inspectors that aren't "classically" trained as electricians that are ICC E1 Certified to be more familiar with inspections for electrical services on single-family dwellings (new or existing) or those interested in or studying for IRC E1 certification.

Inspection & Resolution of Venting Problems, Presented by TFACA
Monday, 1:30pm-4:30pm, \$34

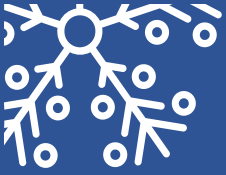
- This course focuses on the requirements, techniques and procedures, and the technical knowledge needed for the inspection and resolution of venting problems, as well as the same necessary to assure the minimum requirements of the international plumbing codes are met. This course deals with the use of the code, basic plumbing terminology and how to perform various plumbing calculations.

Building Tall: High Rise Safety, Presented by TFACA
Monday, 1:30pm-4:30pm, \$34

- This course will examine the special occupancy provisions of IBC Chapter 4 section on High-Rise Buildings. Building elements and engineering techniques in these special occupancies, and less familiar construction methods are explored and explained in light of compliance with the International Building Code. Placing an emphasis on Life Safety features.

Continues on Next Page





Course Descriptions

Tuesday December 3rd Classes

Essential Electrical Service Specifications, Presented by TFACA
Tuesday, 8am-12pm, \$40

- This half-day intensive course is designed to provide participants with a comprehensive understanding of electrical services as outlined in the 2017 National Electrical Code (NEC). This course covers the design, installation, and maintenance of electrical services in accordance with the 2017 National Electrical Code (NEC). Participants will gain a comprehensive understanding of service entrance requirements, panelboard installation, and overcurrent protection, ensuring compliance with NEC standards for safe and efficient electrical service systems.

Mass Timber Connection, Presented by Simpson Strong-Tie
Tuesday, 8am-10am, \$28

- This course provides an understanding of connection design for mass timber structures. Participants learn about the various types of connections, their importance in structural integrity, and the best practices for designing and selecting appropriate connections. The course covers the latest codes and standards and innovative connection solutions to enhance practical knowledge. Attendees will gain valuable insights that can be applied to real-world projects, enabling them to effectively utilize mass timber in their design, construction processes, and perform proper inspections of installed connections.

Continuous Load Path, Presented by Simpson Strong-Tie
Tuesday, 10am-11am, \$22

- This course provides an in-depth examination of structural design principles aimed at creating resilient buildings that can withstand extreme weather events and seismic activity. This course covers essential concepts such as load transfer mechanisms, the importance of continuous load paths in construction, and best practices for connecting various building components. Participants will gain insights into the application of innovative products and techniques that enhance structural integrity and safety, ensuring compliance with building codes and standards. Ideal for architects, engineers, and construction professionals, this course emphasizes practical solutions and real-world scenarios to improve building resilience.

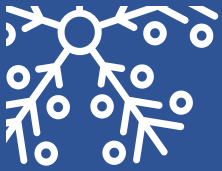
Deck Construction, Presented by Simpson Strong-Tie
Tuesday, 11am-12pm, \$22

- This course offers comprehensive training on best practices for building safe, durable, and code-compliant decks. Participants will learn about deck design principles, material selection, installation techniques, and local building codes. The course discusses the proper tools and safety tips, as well as the use of Simpson Strong-Tie's innovative connector products. This course equips the participants with essential knowledge to enhance their deck construction inspection skills and ensure superior quality in your projects.



Continues on Next Page





Course Descriptions

Tuesday December 3rd Classes

From Blueprints to Bricks: Fire Safety During Construction & Demolition, Presented by TFACA
Tuesday, 8am-12pm, \$40

- Many of the obstacles encountered by firefighters when responding to incidents at new construction or those under remodel or renovation can be eliminated or mitigated with the proper application of fire code requirements. Both the International Fire Code and NFPA 241 are extremely valuable tools in assisting Fire Inspectors and Firefighters in improving fire safety and general safety on construction sites, whether that be in the construction of new buildings or those under remodel or renovation. Inspectors and firefighters will learn the importance of safeguarding construction operations from fire in buildings where construction operations are taking place. Fire service personnel will also learn methods to increase safety for construction workers as well as making construction sites more accessible for fire crews in their response to fires, rescue operations, and medical emergencies.

Understanding Grounding & Bonding, Presented by Ben Wesley
Tuesday, 1:30pm-4:30pm, \$34

- This course will help inspectors have a better understanding of the purpose of both grounding and bonding and a practical application of it in the field, including some often-misunderstood sections.

Residential Framing Issues, Presented by Ron Corum
Tuesday, 1:30pm-4:30pm, \$34

- This course on residential framing issues provides an in-depth exploration of common challenges encountered in the framing process of residential construction. Students will learn to identify structural concerns, analyze building codes, and apply best practices for effective framing techniques for ceilings, floors, walls, and roofs. Participants will develop a comprehensive understanding of how to ensure structural integrity and enhance the longevity of residential frames, better preparing them for real-world construction inspections.

Fire Inspection for Places of Religious Worship, Presented by TFACA
Tuesday, 1:30pm-4:30pm, \$34

- This class offering takes a look at the various problems encountered when performing fire and life safety inspections in “places of religious worship”. These occupancies can present new and different challenges unlike other occupancy fire inspections. To provide the students with the necessary knowledge and skills to relate the knowledge of special considerations associated with Places of Religious Worship occupancies.





Southern Appalachian Building & Fire Codes Conference



12/2 Monday:

7:30 AM-8:00 AM	Conf. Center	Class Preparation/Meet & Greet/Vendor Set-up	
8:00 AM-10:00 AM	Room 1	Photovoltaic Systems and Firefighter Safety	(2 hr)
8:00 AM-12:00 PM	Room 2	Introduction to 2018 IRC Mechanical Codes	(4 hr)
8:00 AM-10:00 AM	Room 3	The Future of AI in Building Departments	(2 hr)
9:45 AM-10:00 AM	Vendor Room	Morning Break in Vendor Room	(15 mins)
10:00 AM-12:00 PM	Room 1	Electric Vehicle Charging Systems	(2 hr)
10:00 AM-12:00 PM	Room 3	Innovative Fireproofing Solutions: Code Compliance with Passive Protection	(2 hr)
12:00 PM-1:30 PM	LUNCH	Student Provided/Visit with Vendors	(1.5 hr)
1:30 PM-2:30 PM	Room 1	Emergency Egress Lighting	(1 hr)
1:30 PM-4:30 PM	Room 2	Inspection & Resolution of Venting Problems	(3 hr)
1:30 PM-4:30 PM	Room 3	Building Tall: High Rise Safety	(3 hr)
2:30 PM-4:30 PM	Room 1	Electrical Service Change Inspections: For the Not So Electrically Inclined	(2 hr)
2:30 PM-2:45 PM	Vendor Room	Afternoon Break in Vendor Room	(15 mins)



12/3 Tuesday:

7:30 AM-8:00 AM	Conf. Center	Class Preparation/Meet & Greet/ Vendor Set-up	
8:00 AM-12:00 PM	Room 1	Essential Electrical Service Specifications	(4 hr)
8:00 AM-10:00 AM	Room 2	Mass Timber Connection	(2 hr)
8:00 AM-12:00 PM	Room 3	From Blueprints to Bricks: Fire Safety During Construction and Demolition	(4 hr)
9:45 AM-10:00 AM	Vendor Room	Morning Break in Vendor Room	(15 mins)
10:00 AM-11:00 AM	Room 2	Continuous Load Path	(1 hr)
11:00 AM-12:00 PM	Room 2	Deck Construction	(1 hr)
12:00 PM-1:30 PM	LUNCH	Student Provided/Visit with Vendors	(1.5 hr)
1:30 PM-4:30 PM	Room 1	Understanding Grounding & Bonding	(3 hr)
1:30 PM-4:30 PM	Room 2	Residential Framing Issues	(3 hr)
1:30 PM-4:30 PM	Room 3	Fire Inspection for Places of Religious Worship	(3 hr)



4:30 PM **ALL CLASSES DISMISSED**

NOTE: Additional breaks will be provided throughout each class period.

