



BUILDING CODES **EDUCATION CONFERENCE**

Eastern Montana Building Codes Education Conference

October 15 - 17, 2024

Eastern Montana Fairgrounds

42 Garryowen Road, Miles City, MT 59301

This conference is presented for design professionals, building code officials, fire officials, residential builders, commercial contractors, inspectors, and other professionals interested in learning about building codes and other related topics.

Lodging

The following hotels have rooms set aside for attendees. Space is limited, so make sure to call and book your rooms early!

Sleep Inn & Suites (Block closes September 16, 2024)

1006 S. Haynes Ave, Miles City, MT 59301

Please call (406) 232-3000 and use code "Eastern Building Codes."

Miles City Hotel & Suites (Block closes September 6, 2024)

1720 S. Haynes Ave, Miles City, MT 59301

Please call (406) 234-1000 and use code "Eastern Building Codes."

Miles City Hotel (Block closes September 6, 2024)

1615 S. Haynes Ave, Miles City, MT 59301

Please call (406) 234-1000 and use code "Eastern Building Codes."

Continuing Education Credits

All courses offered at the conference are approved for self-reporting continuing education credits. Unless noted otherwise, Shums Coda Associates instructors will report your AIA credits for you if you provide your AIA number on the course sign in sheet. All other credits must be self-reported to AIA. Please pay close attention to each course description for the type and number of credits available. The certificates issued for most of the courses offered at the conference will qualify for State Board of Architects licensing CE. Please be advised that the amount of CEUs awarded may vary slightly by provider.

Contact Information

For conference questions, please contact DLI ESD Outreach at dliisdoutreach@mt.gov.

Conference Courses

Tuesday, October 15, 2024

Courses may be subject to change. Please confirm location and schedule on-site.

Commercial Tenant Improvements of A, B and M | Bill Clayton, Shums Coda Associates

Identifies IBC provisions applicable to the design and construction of tenant space improvements. The discussion addresses the three most common types of uses: business, mercantile and assembly. It emphasizes options available in the code for gaining compliance. Discussion includes occupancy separations and fire areas, type of construction features, fire-resistance-rated construction, interior finish materials, fire protection features, means of egress components and means of egress design.

In addition to providing education credits and providing a class certificate to building and fire code officials the certificate issued with this class qualifies for Montana State Board of Architects licensing CE (8 hours). Additionally, provider will report AIA credits, as approved by AIA, for course attendees providing AIA number on the sign in sheet. AIA approved credits may vary from the credits issued on the certificate.

Part 1: One and Two Family Residential Electrical Systems | Doug Smith, West Coast Code Consultants

This 8-hour (full day) class is the first half of the One and Two Family Residential Electrical course designed to walk the student step by step through the essential residential electrical provisions of the 2020 NEC (and 2021 IRC). Concepts covered include basics of electrical circuits, Ohms law, definitions, general electrical requirements, working space, conductor (wire) requirements, services, grounding electrode system requirements, branch circuits and feeder requirements, and sizing of conductors (wires). Example calculations will also be presented during the class. This course will not only be beneficial for existing inspectors, plan reviewers, or installers, but will also be helpful for individuals seeking to become certified as an ICC Residential Electrical Inspector.

In addition to providing education credits and providing a class certificate to building and fire code officials the certificate issued with this class qualifies for State Electrical Board licensing CE (8 hours) & Montana State Board of Architects licensing CE (8 hours). Additionally, course is approved by AIA but attendees must self-report credits. AIA approved credits may vary from the credits issued on the certificate.

Day 1: 2024 Uniform Plumbing Code | Jed Scheuermann, IAPMO

Basic provisions of the latest UPC edition along with significant changes from the 2021 UPC will be considered. Some current Montana amendments will be discussed. This is a sixteen (16) hour course that will hit the high points of the entire code, including appendices. Some fundamental sizing of water piping, as well as DWV piping systems will be considered. It is an overview of code, rather than in depth exploration. Photos of good, bad and ugly installations will be incorporated. There will be adequate time for questions, answers, and discussion.

It is strongly suggested that each participant bring the corresponding Codebook to the seminar.

In addition to providing education credit and providing a class certificate to building officials and inspectors, the certificate issued with this class qualifies as continuing education credits for the State of Montana Board of Plumbers (8 hours).

Wednesday, October 16, 2024

IBC Fire-Resistance-Rated Construction | Bill Clayton, Shums Coda Associates

Focuses on those elements of buildings that are required to be fire-resistance-rated due to other provision of the code. Based on the International Building Code® (IBC®), provision applicable to all of the occupancies and construction types will be addressed. The seminar is applicable to all aspects of the regulatory/design/construction community, including building officials, fire officials, plans examiners, inspectors, design professionals and contractors. Major topics include: Required fire-resistance-rated construction in the IBC, Resources to Verify Fire-resistance-rated Construction, Fire walls, Fire Barriers and Fire Partitions, Horizontal Assemblies, Shaft Enclosures, Fire Doors and Fire Windows, Penetrations and Joints, Fire Dampers and Smoke Dampers, Fire-blocking and Draft-stopping.

In addition to providing education credits and providing a class certificate to building and fire code officials the certificate issued with this class qualifies for Montana State Board of Architects licensing CE (8 hours). Additionally, provider will report AIA credits, as approved by AIA, for course attendees providing AIA number on the sign in sheet. AIA approved credits may vary from the credits issued on the certificate.

Part 2: One and Two Family Residential Electrical Systems | Doug Smith, West Coast Code Consultants

This 8-hour (full day) class is the second part of the One and Two Family Residential Electrical course. This course will again be based on provisions of the 2020 NEC (and 2021 IRC). Concepts to be covered include wiring methods, receptacle and outlet requirements, GFCI and AFCI devices, lighting, conduit & box fill, mounting of equipment, grounding and bonding requirements, switches, flexible cords, swimming pools/hot tubs, and hydro massage bathtubs. Again, this course will not only be beneficial for existing inspectors, plan reviewers, or installers, but will also be helpful for individuals seeking to become certified as an ICC Residential Electrical Inspector.

In addition to providing education credits and providing a class certificate to building and fire code officials the certificate issued with this class qualifies for State Electrical Board licensing CE (8 hours) & Montana State Board of Architects licensing CE (8 hours). Additionally, course is approved by AIA but attendees must self-report credits. AIA approved credits may vary from the credits issued on the certificate.

Day 2: 2024 Uniform Plumbing Code | Jed Scheuermann, IAPMO

Basic provisions of the latest UPC edition along with significant changes from the 2021 UPC will be considered. Some current Montana amendments will be discussed. This is a sixteen (16) hour course that will hit the high points of the entire code, including appendices. Some fundamental sizing of water piping, as well as DWV piping systems will be considered. It is an overview of code, rather than in depth exploration. Photos of good, bad and ugly installations will be incorporated. There will be adequate time for questions, answers, and discussion.

It is strongly suggested that each participant bring the corresponding Codebook to the seminar.

In addition to providing education credit and providing a class certificate to building officials and inspectors, the certificate issued with this class qualifies as continuing education credits for the State of Montana Board of Plumbers (8 hours).

Thursday, October 17, 2024

Continued Use & Reuse of Existing Buildings | Bill Clayton, Shums Coda Associates

Addresses the relationship of the IBC, IFC and the other I codes to existing buildings, as well as the use of the IEBC. Focuses on the fundamental requirements that are placed on an existing structure that undergoes repair, alteration, construction of an addition, and the effect of a change in the building's occupancy classification. This course also includes a discussion of Historic and Relocated buildings. Discussion will include the various compliance methods alternatives and application of the IEBC. Open discussion is encouraged as time allows.

In addition to providing education credits and providing a class certificate to building and fire code officials the certificate issued with this class qualifies for Montana State Board of Architects licensing CE (8 hours). Additionally, provider will report AIA credits, as approved by AIA, for course attendees providing AIA number on the sign in sheet. AIA approved credits may vary from the credits issued on the certificate.

Residential Solar PV and Energy Storage System Inspections | Doug Smith, West Coast Code Consultants

The first half of this course specifically focuses on inspections for solar PV systems, including residential and commercial systems. The course will explain key concepts of what to look for during inspections. Topics covered include roof-mounted systems, ground-mounted systems, typical PV racking systems, ballasted racking systems, overcurrent protection, disconnects, point of interconnection, grounding and bonding, wire management, and signage. The second half of this course will focus on residential energy storage systems (ESS). This portion of the class will explain some of the key items and requirements of UL 9540 and 9540A. It also explains the requirements for ESS per the 2021 IRC. Important provisions of Article 706 of the 2020 NEC are also covered. The last portion of the class explains a variety of line diagrams and manufacturer specification sheets for some common residential battery backup systems that the industry is currently seeing installed. This course is beneficial for plan reviewers, inspectors, contractors, designers, and fire officials. This course is based on the 2020 National Electrical Code and 2021 I-Codes.

In addition to providing education credits and providing a class certificate to building and fire code officials the certificate issued with this class qualifies for State Electrical Board licensing CE (8 hours) & Montana State Board of Architects licensing CE (8 hours). Additionally, course is approved by AIA but attendees must self-report credits. AIA approved credits may vary from the credits issued on the certificate.

Codes & Cannabis | Jed Scheuermann, IAPMO

Based on 2024 Uniform Plumbing Code (UPC), Indoor Horticultural Facilities, (Appendix Q), this eight (8) hour course will primarily examine plumbing requirements. It will also incorporate general or basic building, mechanical and electrical code provisions as they pertain to grow, processing, extraction, and retail cannabis operations. Relevant photos will be incorporated. This is an overview, not an exhaustive course.

It is strongly suggested that each participant bring the corresponding Codebook to the seminar.

In addition to providing education credit and providing a class certificate to building officials and inspectors, the certificate issued with this class qualifies as continuing education credits for the State of Montana Board of Plumbers (8 hours).