

2024 Q4

Codes, Standards and New Construction Quarterly Newsletter

Q4 2024 TEAM UPDATES

What's New

Happy New Year!

STANDARDS: 2024 saw some of the largest federal standards updates in the history of the program. Between 2021 and the end of 2024, the U.S. Department of Energy (U.S. DOE) updated more than 30 federal standards; U.S. DOE reviewed another nine and deemed them not ready for updates. Standards updates typically take more than two years from start to finish, so NEEA's codes and standards team and our partners around the country have been very busy for the past several years. Federal standards are required to be technologically feasible and cost-effective, and the process is open to debate and feedback from all market actors.

U.S. DOE estimates the updates from the past three years will reduce annual energy expenses for business and consumers by \$2 billion. Through a detailed analysis, the Appliance Standards Awareness Project (ASAP) estimates that significant savings remain for future standards including more than \$10 billion in annual energy savings for business and consumers. This highlights the tremendous innovation of manufacturers and technological advancements that continue to offer energy efficiency opportunities for decades to come.

CODES: Not to be outshined by federal standards, codes also had a busy and productive year including updates to codes in all four Northwest states and the national International Energy Conservation Code (IECC) model code.

Continued on next page

For additional information on state codes and links to training resources, visit NEEA's website:

<https://neea.org/our-work/codes-standards/codes>

Additional energy code training resources can be found on the BetterBuiltNW (BBNW) website:

<https://betterbuiltinw.com/training#energy-code>

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Q4 2024 TEAM UPDATES *Continued*

Like standards, code updates require a couple of years of public comment and analysis, and codes have historically delivered energy efficiency savings each time they've been updated. Once the current codes were completed, the states began the next round of code development. NEEA staff and our partners almost immediately resumed developing code proposals and serving on technical advisory committees to update the codes.

Q4 2024 Code Highlights:

- NEEA staff were selected for 2027 IECC Commercial Consensus committee.
- The Washington State Energy Code–Commercial code change proposal period opened, with a deadline of January 14, 2025.
- Oregon finalized adoption of the 2025 Oregon Energy Efficiency Specialty Code (OEESC), effective January 1, 2025, with a six-month phase-in period and mandatory effective date of July 1, 2025.

This newsletter provides details of all NEEA's codes, standards and new construction activities organized by state. Beyond the code and standards development efforts, NEEA provides trainings, educational materials, tools to aid in compliance, help desks to address market questions, and state level collaboratives that organize to address opportunities and gaps in their states.

We hope you enjoy reading our quarterly newsletter. Please let us know if you have any questions or ideas on other information that would be helpful for you.

For additional information on state codes and links to training resources, visit NEEA's website:

<https://neea.org/our-work/codes-standards/codes>

Additional energy code training resources can be found on the BetterBuiltNW (BBNW) website:

<https://betterbuiltinw.com/training#energy-code>



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PUBLISH DATE: FEBRUARY 10, 2025

State	Sector	Code Version	Adopted Date	Effective Date
IDAHO	COMMERCIAL	2018 IECC	4/2/2020	1/1/2021
	RESIDENTIAL	2018 IECC with weakening amendments	4/2/2020	1/1/2021
MONTANA	COMMERCIAL	2021 IECC (with mid-cycle weakening amendments)	6/6/2022	9/8/2022 (amended 9/21/2024)
	RESIDENTIAL	2021 IECC with weakening amendments	6/6/2022	9/8/2022
OREGON	COMMERCIAL	2025 Oregon Energy Efficiency Specialty Code (OEESC) (ASHRAE 90.1-2022 with weakening amendments)	1/1/2025	7/1/2025
	RESIDENTIAL	2023 Oregon Residential Specialty Code (ORSC) (custom state-developed code)	10/1/2023	4/1/2024
WASHINGTON	COMMERCIAL	2021 Washington State Energy Code (WSEC) (2021 IECC with strengthening amendments)	11/28/2023	3/15/2024
	RESIDENTIAL	2021 WSEC (2021 IECC with strengthening amendments)	11/28/2023	3/15/2024



Market Progress Evaluation Report #6

NEEA contracted NMR Group, Inc., to conduct the sixth MPER for its commercial and residential codes efforts. This study is intended to build on and complement the learnings generated through the recently completed Codes MPER #5 conducted by ADM Associates and will focus on the following research objectives:

1. Assess NEEA's progress on selected logic model outcomes, including those associated with (a) the Codes team's training and education activities, (b) voluntary certification and above-code construction, and (c) jurisdictional goals and state-level code support.
2. Conduct a qualitative analysis of NEEA's progress on outcomes associated with its code influence activities conducted during code cycles from 2018 onward, with a particular focus on code influence activities from 2023 onward.
3. Conduct formative evaluation regarding market actor awareness, use, and valuing of key code compliance tools, including the Washington State Energy Code Commercial Technical Support website and webtool: COMcheck and REScheck.

The study kicked off on October 31, 2024, with instrument development and data collection following between late 2024 and early 2025.. A final report is anticipated by Q3 2025.



International Energy Conservation Code (IECC)

In Q4 2024, NEEA staff applied to and were selected for the 2027 IECC Commercial Consensus committee. NEEA also submitted three code change proposals to the International Code Council (ICC) and were co-proponents on an additional proposal. These proposals target both residential and commercial construction and would result in a mix of electric and gas savings. In 2025, the committee will form topical subcommittees and begin reviewing the hundreds of submitted proposals.



Commercial Code

General Updates

The Washington State Energy Code–Commercial (WSEC-C) Integrated Draft (combining the most efficient elements of 2021 WSEC-C and 2024 IECC-C) was completed in November 2024, and the public code change proposal submission period was opened. This Draft served as the basis for these proposals. After convening contractors and other partners earlier in 2024 to brainstorm and iterate on code proposal concepts, NEEA coordinated the further prioritization, assignment, development and submission of dozens of proposals by the January 14, 2025, deadline.

Passage of [WA Ballot Initiative I-2066](#) in November 2024 has introduced uncertainty to the efficiency levels of current and future WA energy codes. WA State Building Code Council (SBCC) action to date indicates that measures to comply with I-2066 will be taken as part of the 2024 WSEC development process in 2025, but the extent of changes to the current code (2021 WSEC) due to I-2066 is unknown.

Finally, U.S. DOE completed its analysis of the current code, 2021 WSEC-C, and found it to be [25.7% more efficient than ASHRAE 90.1-2019](#), the contemporaneous model commercial energy code.



Commercial Code (Continued)

Education and Training

NEEA provides training and technical assistance on the current WSEC-C provisions. Training attendees and recipients of technical support include design and construction professionals, building officials, plan examiners, home builders, contractors, field inspectors and fire marshals.

Educational resources and trainings on the 2021 WSEC-C are available for on-demand viewing on NEEA's commercial [WSEC website](#).

The WSEC-C trainings delivered and offered in Q4 2024 are listed in the table below.

Training Topic	Course Length	Attendees	Location	Date
2021 WSEC-C Additional Energy Efficiency and Load Management	1.5 hours	238	Webinar	10/2/2024
2021 WSEC-C Multifamily Buildings	1.5 hours	207	Webinar	10/30/2024
2021 WSEC-C Service Water Heating Systems	1.5 hours	123	Webinar	12/17/2024

Code Compliance Webtool

The 2021 WSEC-C edition of the code compliance webtool was launched in Q1 2024; it continues to undergo improvements based on inquiries through the technical assistance hotline and to be updated based on changes to the code or formal interpretations.

As of Q4 2024, [the WSEC-C code compliance webtool](#) had over 11,900 registered users and more than 22,400 non-test projects submitted through the tool, 3,600 of which are 2021 WSEC projects.



Residential Code

General Updates

In Q4 2024, the 2024 Washington State Energy Code – Residential (WSEC-R) Energy Technical Advisory Group for Residential Energy Code application opened, and recruitment is underway.

As with the Washington commercial code, passage of [WA Ballot Initiative I-2066](#) in November 2024 has introduced uncertainty to the efficiency levels of current and future WA energy codes. WA SBCC action to date indicates that measures to comply with I-2066 will be taken as part of the 2024 WSEC development process in 2025, but the extent of changes to the current code (2021 WSEC) due to I-2066 is unknown.

Finally, U.S. DOE completed its analysis of the current code, 2021 WSEC-R, and found it to be [25.1% more efficient than 2021 IECC](#), the contemporaneous model residential energy code.

Education and Training

NEEA provides training and technical assistance on the current WSEC-R provisions. Training attendees and recipients of technical support include design and construction professionals, building officials, plan examiners, home builders, contractors, field inspectors and fire marshals.

The WSEC-R on-demand trainings, training webinar schedule and additional resources can be found on the [Washington State University Energy Program](#) and [BetterBuiltNW](#) websites.



Education and Training *(Continued)*

The WSEC-R live trainings delivered in Q4 2024, and available on-demand trainings, are listed in the table below.

Training Topic	Course Length	Attendees	Location	Date
Energy Code 2021 Overview	1.5 hours	47	Webinar	10/9/2024
Energy Code 2021 Overview	1.5 hours	25	Webinar	11/13/2024
SW Washington ICC Fall Seminar	8 hours	26	Vancouver, WA	10/14/2024
Energy Code Overview for Johnson Squared Architects	2 hours	15	Bainbridge Island, WA	10/31/2024
Energy Code Overview for Snohomish County AHJ	1.5 hours	27	Webinar	11/7/2024
2018 WSEC-R: Summary of the 2018 WA State Residential Energy Code	10 mins	519*	On Demand	Various
2018 WSEC-R: Residential Energy Code Compliance	2 hours	20*	On Demand	Various
2018 WSEC-R: Build Tight & Ventilate Right Options (short version)	1 hour	10*	On Demand	Various
2018 WSEC-R: Balanced Ventilation with ERVs & HRVs (short version)	1 hour	65*	On Demand	Various
2018 WSEC-R: Efficient Building Envelope Options	1 hour	10*	On Demand	Various
2018 WSEC-R: Heating & Air Conditioning System Inside Options	14 mins	52*	On Demand	Various
Using the C3 Calculator to Calculate Ventilation Rates	10 mins	83*	On Demand	Various
Filling out the Compliance Certificate for Ventilation Systems	10 mins	98*	On Demand	Various
2021 WSEC-R: Cost Effective HVAC Strategies to Meet New WSEC-R (Mitsubishi)	1.5 hours	349*	On Demand	Various
2021 WSEC-R: Market Trends, Builder Choices, and Resources	1.5 hours	286*	On Demand	Various

*On-Demand training attendance numbers are cumulative starting from January 1, 2024.



Commercial Code

General Updates

Oregon completed its commercial energy code update process in Q4 2024. The Building Codes Division adopted the 2025 Oregon Energy Efficiency Specialty Code (OEESC), effective January 1, 2025, with a six-month phase-in period and mandatory effective date of July 1, 2025. The 2025 OEESC is based on ASHRAE 90.1-2022, and Oregon is one of the first states in the country to update to a code based on the most recent model energy code versions. However, 2025 OEESC does include weakening amendments, including removal of a new provision that requires renewable energy production in some cases.

Code change proposals for the Oregon Commercial Reach Code update were due from the public on December 15, 2024. [NEEA staff submitted one proposal](#) intended to better align Reach Code requirements with unamended ASHRAE 90.1-2022 provisions.

Residential Code

General Updates

The Energy Efficiency chapter of the Oregon Residential Specialty Code (ORSC) had no significant updates in Q4 2024. Initial code development activity for the 2026 ORSC is expected to begin in mid-2025.



Residential Code (Continued)

Education and Training

NEEA partners with organizations across the state to provide technical assistance and training on the current and upcoming Oregon residential and commercial energy codes. Training attendees include design and construction professionals, building officials, plan examiners, home builders, contractors, field inspectors and fire marshals.

In addition, the Oregon Building Codes Division provides residential energy code training resources and videos on its website <https://www.oregon.gov/bcd/codes-stand/Pages/energy-residential-compliance.aspx>.

The Oregon energy code training delivered in Q4 2024 is listed in the table below.

Training Topic	Course Length	Attendees	Location	Date
Cracking the Codes: The Present and Future of Northwest Energy Code	1 hour	44	Webinar	12/12/2024



Residential Code (Continued)

Field Study and Evaluation

Oregon Residential Code Compliance Evaluation

NEEA kicked off the Oregon Residential Code Compliance Evaluation in February 2024. Through this study, NEEA will gather market data about homes built under the 2021 Oregon Residential Specialty Code (ORSC) to meet the following objectives:

- Calculate code compliance among single-family buildings constructed under the 2021 ORSC.
- Investigate whether and how new construction homes use natural gas for space and water heating as well as other end uses, including stoves and hearths, and the prevalence of gas hookups in homes with all-electric appliances.
- Document the proportion of new construction homes built with above-code elements.
- Provide an analysis of builders' choices and rationale regarding the efficiency level to which homes are built (base code, reach code, ENERGY STAR® Homes) and selection and implementation of the 2021 ORSC-required Additional Measure.

The report is expected in Q2 2025.



General Updates

In Q4 2025, the Idaho Energy Code Collaborative met twice to discuss provisions of the 2024 IECC commercial and residential codes in preparation for anticipated review of the 2024 IECC by the Idaho Building Code Board.

The Building Code Board members met on October 22, 2024, announced the 2025 meeting dates, and confirmed their intent to review and adopt 2024 I-Codes in 2025. Idaho Division of Occupational and Professional Licenses (DOPL) staff shared that they will schedule public meetings in 2025 to allow for public comment related to the proposed code adoption.

Education and Training *(information continued on next page)*

NEEA provides training and technical assistance on the current Idaho energy code. Training attendees and recipients of technical support include design and construction professionals, building officials, plan examiners, home builders, contractors, field inspectors and fire marshals.

More information about the Idaho building energy code, trainings and resources can be found at [the Idaho Energy Code website](#).



Education and Training *(Continued)*

The Idaho energy code trainings delivered in Q4 2024 are listed in the table below.

Training Topic	Course Length	Attendees	Location	Date
Indoor Air Quality	1 hour	1	Webinar	10/8/2024
Energy Rating Index	1 hour	2	Webinar	11/12/2024
Energy Code Updates	8 hours	14	Meridian, ID	11/14/2024
Air Balance Certification Training	8 hours	11	Webinar	11/20/2025
Effective Air Sealing	1 hour	2	Webinar	12/10/2024
Effective Air Sealing, Remodels and Heat Pump Water Heaters	4 hours	4	Hailey, ID	12/12/2024
IECC 2018 Commercial Lighting Allowances & Power Requirements	1 hour	2	Webinar	10/8/2024
IECC 2018 Commercial Lighting Control Strategies Requirements	1 hour	2	Webinar	10/15/2024
IECC 2018 Commercial Envelope Requirements	1 hour	8	Webinar	11/12/2024
IECC 2018 Commercial Ventilation Controls	1 hour	2	Webinar	11/19/2024
IECC 2018 Commercial Efficiency Options & Performance to Meet Code	1 hour	4	Webinar	12/10/2024



Field Study and Evaluation

Idaho Commercial Code Evaluation

The Idaho Commercial New Construction Code evaluation study will assess the path(s) by which, and the degree to which, code compliance is achieved with the amended 2018 IECC in newly constructed buildings, while also measuring building energy performance compared with the average energy performance of buildings constructed under previous code. The results of the study will provide direction to the development and implementation efforts of the NEEA Codes team and will provide other regional code stakeholders guidance in targeting their energy efficiency work in the commercial new construction sector.

NEEA contracted with Opinion Dynamics to conduct this study. A kickoff meeting was held in August 2023 and a sampling plan was prepared in December 2023, with sample development currently underway. Data collection, including desk review of permit data and in-person/virtual site visits, began in Q2 2024 and is scheduled to conclude in Q1 2025. This study includes analysis of billing data, data collection continuing through Q1 2025. A final report is anticipated in Q2 2025.



General Updates

The Montana energy codes had no significant updates in Q4 2024. The state Department of Labor and Industry did set the dates for its annual [codes education conference](#), to be held March 24–28, 2025 in Helena, MT.

Education and Training

Montana energy code training providers developed and posted a virtual course for building and duct tightness training and are continuing outreach efforts to encourage participation. The training can be found on the National Center for Appropriate Technology's [\(NCAT's\) website under the Residential Energy Services section](#). Additional energy code resources can be found on the [MT DEQ's Energy Program website](#).

Information on the Montana Homes Collaborative can be found [on NCAT's website](#).

The Montana energy code trainings delivered in Q4 2024 are listed in the table below.

Training Topic	Course Length	Attendees	Location	Date
Building with Heat Pumps: Efficient Systems for Cold Climates	2 hours	12	Bozeman, MT	10/22/2024
Building with Heat Pumps: Efficient Systems for Cold Climates	2 hours	14	Missoula, MT	10/24/2024



Field Study and Evaluation

Montana Commercial Code Evaluation

The Montana Commercial New Construction evaluation field study focuses on assessing how and the extent to which code compliance is achieved with the 2018 IECC in newly constructed buildings in Montana. The study will include measurements of energy performance of these buildings as compared with the average energy performance of buildings constructed under previous code. The sampling frame encompasses all commercial buildings constructed in Montana under its version of the 2018 IECC, which was in effect from February 13, 2021 through June 5, 2022. NEEA's ultimate objective is to obtain results that will inform the development and implementation efforts of its Codes team, as well as to provide guidance for other regional stakeholders so they can better target their energy efficiency work in the commercial new construction sector.

Data collection for the study is underway, focusing on review of permit data paired with visits to a subset of sites for data validation. Permit and on-site data collection and analysis continued through Q2 2024. Billing data collection was attempted for this study but has been excluded from ongoing project activities due to a prohibitively low response rate from eligible building contacts. The final report, which outlines the results of the compliance analysis and comparative site visits, is anticipated in Q1 2025.



Field Study and Evaluation (*Continued*)

Montana Residential Code Compliance Evaluation

NEEA is reviewing its assumptions underlying its estimation of energy savings resulting from NEEA's and its partners' involvement in the Montana state code processes. Using data collected through site visits to residential new construction building sites and interviews with market actors, this research will address the following objectives:

- Assess statewide compliance with selected code requirements among single-family homes built under IECC 2018 with Montana amendments and IECC 2021 with Montana amendments.
- Develop estimates of statewide energy code compliance and compliance within urban and rural jurisdictions separately using data collected on individual code requirements.
- Provide statewide findings regarding primary space and water heating fuel and above-code elements using data collected on individual code requirements.

This work kicked off in Q1 2023 and paused in Q3 2023 due to permit data collection challenges. The project re-launched in early 2024 with a focus on on-site data collection, and the final report is expected in Q1 2025.



General Updates

In Q4 2024, the U.S. DOE issued Final Rules for eight appliance and equipment standards or test procedures and one Confirmation of Withdrawal pertaining to a Standard. The U.S. DOE also published two Final Determinations to not amend Standards for two products.

NEEA staff collected data and conducted analyses for three appliance products for comment to the U.S. DOE and the Environmental Protection Agency (EPA) in Q4 2024. Comments included regional sales data, lab testing results, field validation data and other technical data to support recommendations for enhanced test procedures and improved efficiency levels.

Below is a list of products for which NEEA submitted comment letters in Q4 2024:

Residential Products

- Test Procedures for Consumer Clothes and Commercial Clothes Washers and Consumer Clothes Dryers
- Withdrawal of “Short Cycle” Residential Clothes Washers, Consumer Clothes Dryers, and Dishwashers

Commercial/Industrial Products

- ENERGY STAR Specification for Packaged Terminal Heat Pumps



Evaluation

Battery Chargers Standard Evaluation

NEEA contracted with Michaels Energy to conduct a qualitative assessment of NEEA's influence on the standards process for battery chargers and to provide a quantitative estimate of the share of savings resulting from NEEA's and other efficiency organizations' efforts. The project kicked off in October 2023; Michaels Energy will review NEEA records and publicly available documents and conduct interviews with key stakeholders from NEEA, U.S. DOE and other organizations. The project is currently on hold awaiting the publishing of the final rule, at which time data collection will resume.

Portable Air Conditioners Standard Evaluation

NEEA contracted with Michaels Energy to conduct a qualitative assessment of NEEA's influence on the standards process for portable air conditioners and to provide a quantitative estimate of the share of savings resulting from NEEA's and other efficiency organizations' efforts. The project kicked off in November 2024; Michaels Energy will review NEEA records and publicly available documents and conduct interviews with key stakeholders from NEEA, U.S. DOE and other organizations. A final report is anticipated in Q2 2025.

Air Compressors Standard Evaluation

NEEA contracted with Michaels Energy to conduct a qualitative assessment of NEEA's influence on the standards process for air compressors and to provide a quantitative estimate of the share of savings resulting from NEEA's and other efficiency organizations' efforts. The project kicked off in November 2024; Michaels Energy will review NEEA records and publicly available documents and conduct interviews with key stakeholders from NEEA, U.S. DOE and other organizations. A final report is anticipated in Q2 2025.

General Updates

The CSA Group reviewed its projects in Q4 2024 and updated them for continued work in 2025. NEEA plans to continue to coordinate and participate in several projects that align with the needs of the Northwest.



General Updates

Residential New Construction market activities focus on removing barriers to the adoption of above-code efficiency measures in new construction and collecting market evidence that supports future code advancement. To accelerate market adoption, these market activities influence builders and key trades to adopt above-code technologies and best practices. The interventions focus on both gas and electric technologies and residential building measures.

Highlights of the BetterBuiltNW team's Q4 2024 activities include:

- Published monthly newsletters for October, November and December covering topics including NEEA's free HVAC sizing tool, a case study on a local high-performance builder, and a recap of BetterBuiltNW's top articles and resources of 2024. Current and past newsletters can be found on [BetterBuiltNW's website](#).
- Continued to meet with other above-code program implementers in the region regarding Northwest Modeling Requirements and to discuss recent updates to residential energy codes and the implications for the Performance Path measure offerings.
- Coordinated with local jurisdictions and industry associations to begin planning a BuildRight road show in Washington in 2025.
- Finalized the dates for the [BuildRight Conference](#) as April 30 – May 1, 2025, and extended a public call for session proposals.

Education and Training

The BBNW website offers many on-demand trainings and resources for builders on above-code building practices, including Top 10 Best Practices for Today's Homebuilder and topic-specific trainings about envelope, HVAC measures and many others. These on-demand trainings can be found on the [BBNW Training website](#).



Education and Training *(Continued)*

Residential new construction above-code trainings delivered in Q4 2024 are listed in the table below.

Training Topic	Course Length	Attendees	Location	Date
Top 10 Best Practices for Today's Homebuilder	3 hours	229*	On-demand	Various
Building with Ducts Inside Conditioned Spaces	3 hours	250*	On-demand	Various
Sustainable Homes Professional (SHP)	15–20 hours	68*	On-demand	Various
How to Cost Effectively Build Zero Energy Homes	3 hours	88*	On-demand	Various
On The Level: Exterior Air Barrier Details in the NW	1 hour	239*	On-demand	Various
On The Level: Balanced Ventilation Approaches for Healthy Indoor Air	1 hour	204*	On-demand	Various
On The Level: Installation Elements for ERVs & HRVs	1 hour	125*	On-demand	Various
On The Level: Using Building Science to Inform Envelope Design	1 hour	115*	On-demand	Various
On The Level: Practical Solutions for Selecting & Installing Exterior Insulation	1 hour	285*	On-demand	Various
On The Level: Design and Quality Control Best Practices for ERVs/HRVs	1 hour	151*	On-demand	Various
Zero Energy Homes: Updates & Cost-Effective Approaches	1 hour	231*	On-demand	Various
Simple Steps to Improve Ductwork Installations	1 hour	76*	On-demand	Various
45L: What You Need to Know	1 hour	258*	On-demand	Various
Heat Pumps: Mastering Design Principles	1 hour	269*	On-demand	Various
Heat Pumps: The Ultimate Installation Guide	1 hour	33*	On-demand	Various
Heat Pumps: The Art of Commissioning	1 hour	217*	On-demand	Various

*On-Demand training attendance numbers are cumulative starting from January 1, 2024.



Education and Training *(Continued)*

Residential new construction above-code trainings delivered in Q4 2024 are listed in the table below.

Training Topic	Course Length	Attendees	Location	Date
Sustainable Homes Professional (SHP) Live Course	32 hours	19	Portland, OR	11/8/2024 - 1/17/2025
DOE BECP Webinar Series: “Resources and Best Practices for Growing the Green Building Workforce”	1.5 hours	125	Webinar	11/21/2025
Building Performance and the Physics behind Home Construction	1 hour	59	Webinar	11/22/2024
DOE Energy Skilled Quarterly Webinar: Business Case for HPs & HPWHs	1 hour	32	Webinar	12/3/2024
Ensuring Success with ENERGY STAR 310 HVAC Grading	1.5 hours	10	Portland, OR	12/11/2024

*On-Demand training attendance numbers are cumulative starting from January 1, 2024.

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