

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Misha Alekseyev

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Greshaud Allen

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Cassie Allender

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Glenn Avick

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

mark banas

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Jason Barlow

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Douglas Barnes

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Daniel Bauer

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

lou bentzen

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Megan Blank

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Connor Blood

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Jeremy Bowers

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Jon Bozak

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Ross Bredeweg

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Craig Briggs

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Christopher Buehner

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Zach Byrne

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Josh Calhoun

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Michael Caples

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Chris Champagne

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Pete Cianci

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Jason Clark

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Mitch Clemente

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Jake Copley

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Lan Cui

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Mattias DeDoes

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

David Demagall

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Heather Demor

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Jim Devlin

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Daniel DiCriscio

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Darlene Diehl

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Greg Drensky

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Rob Druga

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Chris Drummond

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

James Dudt

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Nolan Dunphy

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Terrance Eakin

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

John Edwards

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Harry Elinsky

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Mark Elliott

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Daniel Evans

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Joseph Farley

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Timothy Flanagan

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Tom Folino

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Hector Fontanet

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Allan Fox

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Kirk Fry

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Gregory Fuhrman

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Michael Gaffney

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Jonathon Giaquinto

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Charles Gulledge

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Richard Haas

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Brandon Haberl

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Evan Hammersmith

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Eric Hancock

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Amy Harmon

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Dieter Hausmann

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Kyle Herbst

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Dave Herrmann

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

H. Lewis Hinkel

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Michael Hipp

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Lee Hodkey

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Joe Hofstetter

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

FRED HOLLMAN

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Gregory Holmes

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

RAY HOON

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Thomas House

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Matt Jacobs

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Laura Janek

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Michael Karpinski

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Dan Kendra

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Kathy Kirschnick

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Paul Kleinhans

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Matt Knotts

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Jerry Kocan

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Jason Konley

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Allen Krupar

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Steve Krupar

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Nick Lach

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Rob Laneve

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Hana Lee

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Michael Leininger

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Ian LI

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Scott Lizotte

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Alec Lockhart

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

todd lowe

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Jason Majerus

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Curt Marsh

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Jeff Mattocks

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Ryan Maurer

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

James McCartney

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Jeffrey McCausland

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Bryce McKenzie

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Evan Miller

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Tim Morrissey

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Matt Mottice

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Michael Mueller

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Mike Musci

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Charles Nachman

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Anand Natarajan

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Pratikkumar Navadiya

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

LuAnn Orcutt

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Coral Pais

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Sarah Payne

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Steve Pedicone

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Kris Peterson

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Richard Proppe

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

chad russell

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Kurt Scheer

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Bret Schlosser

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Larry Scullin

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Matt Sejba

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Vincent Sirna

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Mark Smetana

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Brian Snyder

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Mike Spangler

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Mark Stefanak

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Tara Sulzer

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Lawrence Thomas

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Dennis Tomazic

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Andrew Udovich

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Josh Vermillion

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Erika W

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Guo-Xiang Wang

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Olivia Warner

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Kyle Wefing

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Dennis Wessel

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Adam Wolf

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Mark Wolfgang

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Sam Woods

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Martin Zakes

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gulledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Tyler Zamski

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

Certificate of Attendance

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Michael Zerminski

for attendance of “The ASHRAE Digital Lighthouse and Industry
4.0”
on January 18th, 2021

Presented By: Charles E. Gullledge III, PE, HBDP, LEED AP
ASHRAE President 2020-2021

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler
President
ASHRAE - Cleveland Chapter



ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115