



# INDUSTRIAL HEATING EQUIPMENT ASSOCIATION

## IHEA offers online courses for industrial process heating



Throughout the in-depth online course, students learn safe, efficient operation of industrial heating equipment, how to reduce energy consumption, and ways to improve the bottom line. (Courtesy: Shutterstock)

IHEA's comprehensive online learning courses are designed to cater to both beginners and seasoned professionals. Start with the Fundamentals of Industrial Process Heating course, where you'll build a solid foundation and gain essential skills. If you want to level up, the Advanced Industrial Process Heating course offers in-depth knowledge and expert techniques to refine your expertise. Whether you're just starting out or looking to deepen your mastery, these courses are the perfect way to advance your learning journey.

### MASTER THE ESSENTIALS: FUNDAMENTALS OF INDUSTRIAL PROCESS HEATING

The Fundamentals of Industrial Process Heating online learning

course has been a successful source of high-level learning for those in the industrial heat-processing industry for more than 10 years. The flexible online format and interactive forums are just some of the benefits of this class.

This affordable course is ideal for students to learn through a virtual format while at home or in the office, allowing them to go at their own pace. It offers indispensable tools to industrial process heating operators and users of all types of industrial heating equipment. Throughout the in-depth online course, students learn safe, efficient operation of industrial heating equipment, how to reduce energy consumption, and ways to improve the bottom line. The content provides an excellent overview of the essential information

used throughout the industry.

IHEA is pleased to have retired industry expert Dan Curry on board as the instructor for the course. Curry has experience in product development and management in industrial burners, burner control systems, temperature controls, and combustion systems. Throughout his working career, he served on various technical committees for ISO TC244, NFPA 86, NFPA 87, CSA B149.3, and IHEA's Safety Standards & Codes Committee. He started in 1976 as a repair and service technician and expanded his experience and responsibilities through hands-on continuous learning over various industries, business roles, buy-outs, acquisitions, re-assignments, and global travels.



Dan Curry

The curriculum for the fundamentals course includes the basics of heat transfer, fuels and combustion, energy use, furnace design, refractories, automatic control, and atmospheres as applied to industrial process heating. Weekly course work, quizzes, and a final exam project are administered to guide students on their progress and evaluate their knowledge of the material.

Registration is open for the six-week fall session running from September 2 through October 15. For a complete listing of the topics covered and to register, go to [www.ihea.org/event/FundamentalsFall25](http://www.ihea.org/event/FundamentalsFall25).

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## DIG DEEPER: ADVANCED INDUSTRIAL PROCESS HEATING ONLINE COURSE

Recognizing the evolving needs of the industrial heat processing industry, IHEA has continually adapted its educational offerings to provide both foundational and advanced knowledge. The advanced course was developed by IHEA members as a complement to the Fundamentals of Industrial Process Heating, offering students a deeper understanding of the control and efficient operation of industrial process heating equipment.

"This course is a continuation of the Fundamentals of Industrial Process Heating Course and presents students the opportunity to gain in-depth knowledge of a wide variety of subjects essential to individuals in the industrial heat processing industry," said IHEA's Education Committee chair Brian Kelly.

Kelly worked closely with other IHEA members to coordinate the content and update materials to provide a comprehensive learning experience.

Students will become familiar with a variety of oven, furnace, and kiln types used in industry. Upon completion of the course, students will have general knowledge of instrumentation and control



for efficient operations of furnaces and ovens in process heating as well as the wide variety of refractoriness and insulation that uses this equipment as well as their operating considerations. The use of vacuum heat processing, recuperators, regenerators, gas atmospheres, and quenching will also be presented with particular attention being spent on efficient operation of process heating equipment and methods to achieve costs savings.

This 10-week online course gives students the flexibility to learn at their own pace. Students will be responsible for weekly assignments, quizzes, and online forum discussions to successfully complete the course. Industry professionals will moderate the topics each week and be available by email to respond to questions and provide clarification. Dates for the fall course will be announced soon.

## REGISTRATION FEES

Cost for IHEA members is \$775, and cost for non-members is \$950.

Registration fee includes an electronic course handbook, course instruction, quizzes, projects, and class forums. Students who successfully complete a course will receive 18 PDHs for the Fundamentals and 20 PDHs for the Advanced. Printed materials are available for an additional fee. There is also a group discount available when two or more people from the same company register at the same time. The first person will receive the regular rate, and each additional attendee will receive a \$125 discount. NOTE: Enrollment is limited to one course per student at a time.

## IHEA 2025 CALENDAR OF EVENTS

**APRIL 24, 2025**

**Sustainability Webinar – Reducing, Converting, and Trading to get to ZERO Carbon**

IHEA's Sustainability and Decarbonization webinar series focuses on carbon producing heating processes and provide methods to optimize their efficiency and thereby reduce their carbon emission intensity.

Webinar | Register at [www.ihea.org/events](http://www.ihea.org/events)

**SEPTEMBER 2, 2025**

**Fundamentals of Industrial Process Heating Online Course**

6-week online course | Register at [www.ihea.org/events](http://www.ihea.org/events)

**SEPTEMBER 29, 2025**

**IHEA Industrial Heating Decarbonization SUMMIT**

The SUMMIT is designed to be your gateway to the future of manufacturing heating processes, leveraging the energy and carbon connection, and sustainable environmental stewardship.

Webinar | Register at [www.ihea.org/events](http://www.ihea.org/events)

**For details on IHEA events, go to [www.ihea.org/events](http://www.ihea.org/events)**

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P.O. Box 679 | Independence, KY 41051

859-356-1575 | [www.ihea.org](http://www.ihea.org)

