

COMBINED CYCLE POWER PLANT FUNDAMENTALS

October 26-27, 2020
Online | Central Time

“Great overview of how a combined cycle plant works and how they operate in general. Would recommend for any new employees who have little to no experience with power plants.”

Technician, Portland General Electric

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Based on new challenges in the fossil fuel industry, combined cycle technology is a leading solution in improving efficiency and reducing emissions. Many organizations have considered or are considering the placement and development of new combined cycle plants. This course will explain how these plants operate and what the advantages are of moving into the combined cycle arena. The basics of the chemistry of heat and energy will be discussed in order for participants to understand how plants function. All major components of the plant will be reviewed, including turbines, generators, and emission-control systems. Complete operation and maintenance of the combined cycle system will be highlighted as well. Participants will complete the course with an understanding of how plants function efficiently, from the introduction of fuel into the plant to the generation and transmission of electricity.



EUCI is authorized by IACET to offer 1.0 CEUs for the course. Participants must log on each day and be in attendance for the entirety of the course to be eligible for continuing education credit.

LEARNING OUTCOMES

Attendees will review and discuss:

- Basic concepts of energy conversion, namely conversion of chemical energy to electricity
- Basic concepts of temperature, work, and heat in power plant operation
- Basic components of a combined cycle power plant and how they work together to produce energy
- Basics of fuel combustion and how fuels are prepared and combusted in a combustion turbine
- Basic components of a heat recovery steam generator and how they work together to produce steam energy
- Basic components of a steam turbine and how the turbine transforms steam energy from the heat recovery steam generator into mechanical energy

INSTRUCTOR

Carl R. Bozzuto,
Honorary Member, The Council of Industrial Boiler Owners

HEAT RECOVERY STEAM GENERATOR FUNDAMENTALS

October 28, 2020
Online | Central Time



"Mr. Bozzuto is highly knowledgeable in the application of industrial plants, power sector, and energy. The course is easy to follow from his presentation style."

Senior Project Manager, WGL Energy



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This course on HRSG Fundamentals is intended for those who want to know a little bit more about the HRSG and its use in combined cycle and cogeneration plants. Topics to be covered include types of HRSGs, heat exchangers, boiler circulation systems, components, heat management, controls, water chemistry, emission controls, associated equipment, and fabrication/construction. Key features include heat transfer, surface arrangements, design/operating considerations, and integration with combined cycles and cogeneration equipment. Steam conditions will also be discussed.

LEARNING OUTCOMES

- Explain heat transfer and flow within HRSG
- Describe the function of the economizer, evaporator, superheater, reheater, and steam drum components
- Discuss saturated and superheated steam fundamentals, temperature and superheater controls
- Identify purpose of drains, vents, and safety valves
- Outline HRSG controls and protective trips
- Review HRSG construction

INSTRUCTOR

Carl R. Bozzuto,
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To Register Click Here, or

Mail Directly To:

PMA Conference Management
405 Highview Rd
Englewood NJ 07631
201 871 0474
Fax 253 663 7224
register@pmaconference.com

ONLINE DELIVERY & PARTICIPATION DETAILS

EUCI will use Microsoft Teams to facilitate participation in the upcoming event. Attendees do not need to have an existing Teams account to participate in the broadcast. The course will play in attendee's browser. When attendees sign on, their microphones are typically muted. Attendees should keep their mic muted until such time as it's needed to ask a question. During the event, participants will have the option of using a microphone to speak with the room and ask questions, or type in any questions via the chat window and our online administrator will relay your question to the instructor.

- Each attendee will receive an event invitation by e-mail, which will include one link to sign on for each half-day of the event (i.e., three links for a 1 ½ day event). The appropriate link must be used to join each half-day event segment at the appropriate time.
- The remote meeting connection will open approximately 30 minutes before the start of the course. We encourage attendees to connect as early as possible in case of unforeseen problems.

PLEASE SELECT

- BUNDLE PRICE: COMBINED CYCLE POWER PLANT FUNDAMENTALS AND HEAT RECOVERY STEAM GENERATOR FUNDAMENTALS ONLINE COURSES:**
OCTOBER 26-28, 2020: US \$1,895 (Single Connection)
- COMBINED CYCLE POWER PLANT FUNDAMENTALS ONLINE COURSE ONLY:** OCTOBER 26-27, 2020: US \$1,195 (Single Connection)
- HEAT RECOVERY STEAM GENERATOR FUNDAMENTALS ONLINE COURSE ONLY:** OCTOBER 28, 2020: US \$895 (Single Connection)

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

Print Name

Job Title

Company

Address

City

State/Province

Zip/Postal Code

Country

Phone

Email

CREDIT CARD INFORMATION

Name on Card

Billing Address

Account Number

Billing City

Billing State

Exp. Date

Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)

Billing Zip Code/Postal Code

OR Enclosed is a check for \$ _____ to cover _____ registrations.

Substitutions & Cancellations

Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before September 25, 2020 in order to be refunded and will be subject to a US \$195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of course cancellation, EUCI's liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices.

EUCI reserves the right to alter this program without prior notice.

