



# Energy Management Diploma Program

**Credential your career**  
with an industry recognized professional diploma and  
Professional Energy Manager (PEM) certification.

Take these three sessions in any sequence you like. Complete your non-degree diploma in less than one year.

**EM 1: March 18-22, 2024**

**EM 2: July 29-Aug. 2, 2024**

**EM 3: Oct. 21-25, 2024**

**Choose between  
virtual and  
in-person classes!**

“The program broadened my knowledge of energy management and enlightened me with new ways to approach problems I may encounter in the future.”

—Marty Bulloch,  
BMS Specialist, SAS Institute, Angier, NC

If at the time of delivering a course, restrictions exist concerning social distancing and gatherings, registrants will be properly notified that a class will be delivered through a distance learning platform such as Zoom or equivalent.

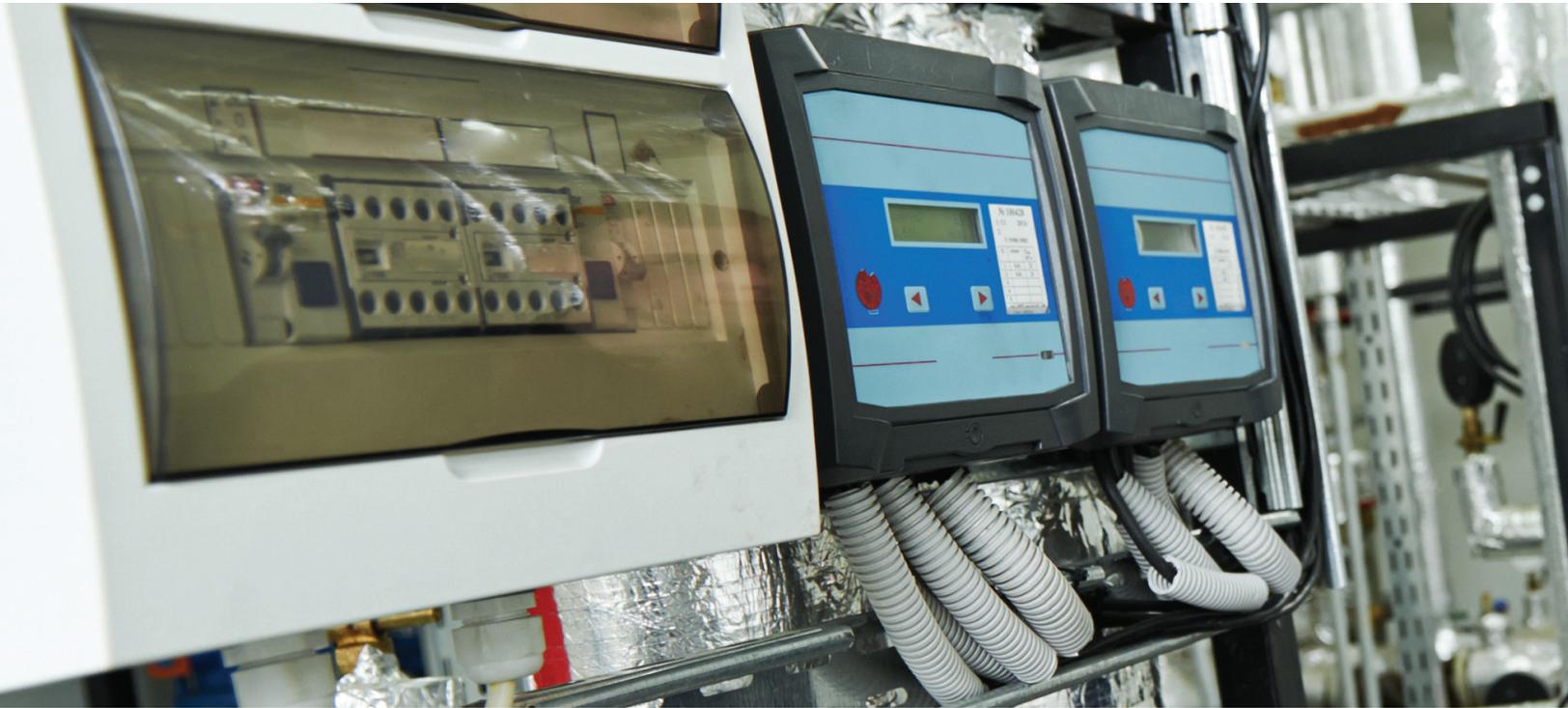
**CELEBRATING 45 YEARS OF SUCCESS!**

Join more than 1,000 graduates from around the world who have benefited from the most comprehensive energy management training program available today.

In-person classes will be held at **McKimmon Conference and Training Center, NC State University, Raleigh, NC**

In Affiliation with





## Why You Should Attend

As a student in the NC State University Energy Management Diploma Program, you'll learn from the most experienced, hands-on energy professionals available. Your instructional team has trained some of the most successful energy managers in the world.

This comprehensive, convenient, and cost-effective, three-part program, the modules of which can be taken in any order, will provide you with a hands-on, practical, real-world energy management education leading to your professional diploma. Earning this non-degree diploma represents solid evidence of your successful completion of the course requirements and illustrates your dedication to becoming more knowledgeable in your field and valuable to your organization. This can be done in less than one year!

## Earn Your Professional Diploma

Upon completion of the three-week program, you will qualify to take a comprehensive course examination developed by the **Institute of Energy Professionals**. By successfully completing the exam, you will earn the **Professional Energy Manager (PEM)** certification in addition to receiving your program diploma from the university.



**Earn 32 PDHs per one-week session**

"This course was a great experience for me. I am fairly new to this field and appreciate the mass amounts of information that the instructors were able to give me. This has helped further my knowledge and expose me to things I wasn't familiar with to aid in understanding and growth in my field."

— Brooke McNeill,  
Randolph Electric Membership Corporation,  
Asheboro, NC



## Who Should Attend

- Facility energy managers
- Maintenance supervisors/personnel
- Manufacturing plant operations personnel
- Manufacturer's representatives for energy-consuming equipment and controls
- Utility customer interface personnel
- Military base operations personnel
- Major oil and natural gas companies with facilities to maintain
- University/college facility managers
- K-12 school system maintenance managers
- Federal, state and local government personnel responsible for facility operations
- Consultants/engineers

## Benefits of Attending

- Enhance your knowledge of the energy management field.
- Prove your knowledge and competence in your field.
- Set yourself above most of your peers, leading to advancements in positions and earnings.
- Earn a diploma from a distinguished university.
- Join a select group of personnel in the energy field.
- Gain exposure to current and emerging relevant aspects of energy management.
- Provide the credential to your employer or prospective employer that you have the in-depth knowledge to be an effective energy manager.

## Your Instructional Team

### Director:

**Walter Bright**, P.E., PEM, President, Institute of Energy Professionals, Inc., 12 years of energy and building automation experience

### Director Emeritus:

**Dan Mull**, P.E., PEM, CEM, Director Emeritus, Institute of Energy Professionals, Inc., over 40 years of electrical utility and energy management experience

### Instructors Include:

**Francis Conlin**, P.E., Senior Engineer, High Performance Building Solutions

**Jamie Edmondson**, President, James M. Pleasants Company, Inc.

**Tom Fenimore**, P.E., PEM, CEM, Technology Development Director, Duke Energy

**Doug Gunnell**, P.E., PEM, HVAC Consultant, former head of HVAC for a major manufacturer

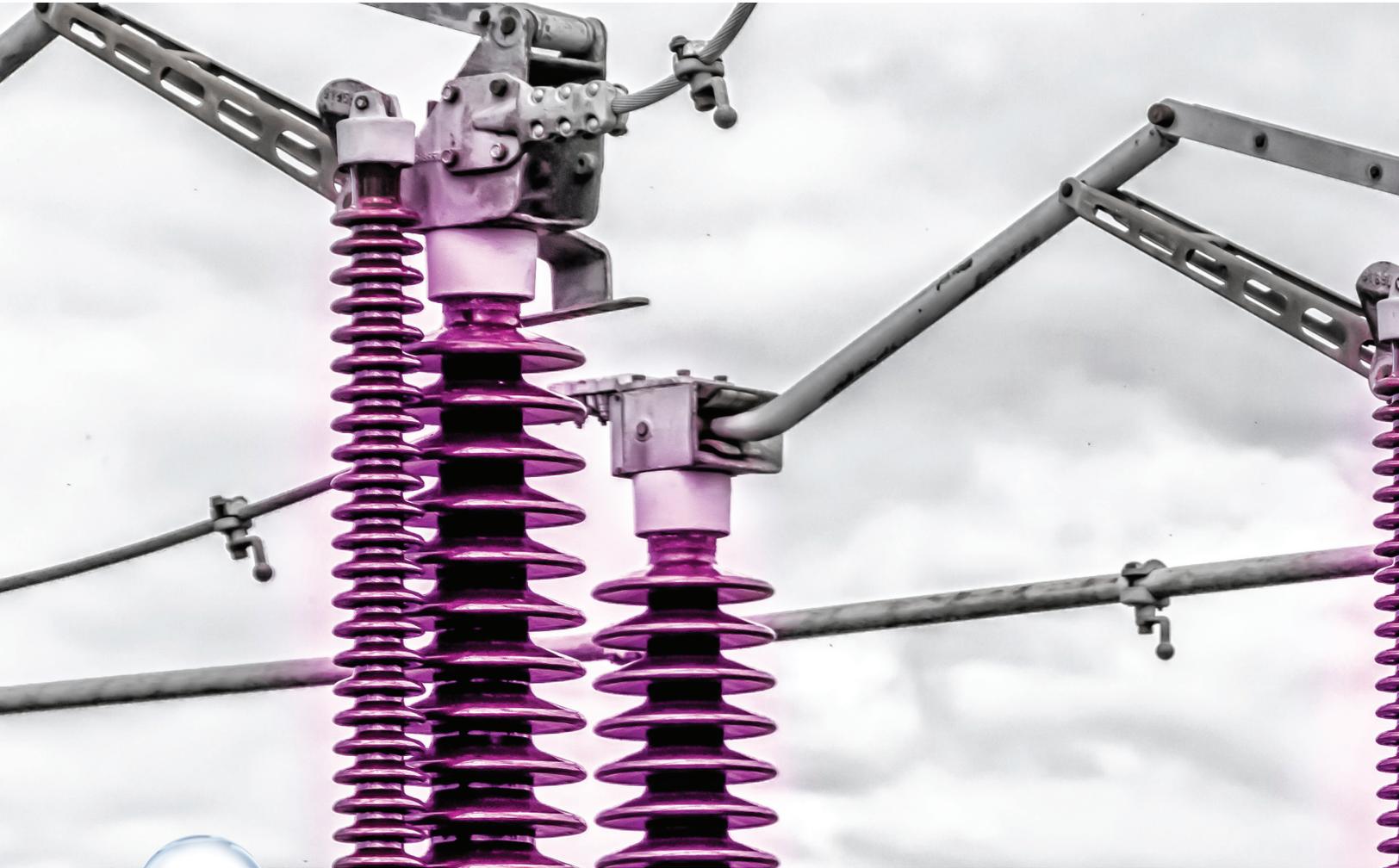
**Greg Harrell**, Ph.D., P.E., PEM, CEM, Director of Engineering Programs, Milligan College

**Roger Lawrence**, P.E., CEM, FIEEE, Independent Consultant

**Charles A. Martin**, P.E., PEM, CEM, Senior Energy Engineer - Advanced Energy

**Jay Santos**, P.E., Partner, Facility Dynamics Engineering

**Bill Turpish**, P.E., PEM, CEM, President of W.J. Turpish and Associates



**NEXT  
UPCOMING  
SESSION**

**EM 1** **March 18-22, 2024**

## **Managing Energy for Greater Profitability**

### **ATTEND AND YOU WILL LEARN\***

- National energy overview
- Energy legislation (codes and standards)
- Understanding of electric utility rates
- What makes an effective energy management program
- Renewable energy overview
- Procurement of fuels
- Strategic energy planning
- Energy calculations
- Metrics - analyzing energy information
- Energy surveying and instrumentation
- Economic analysis techniques
- Understanding the corporate culture
- Survey planning
- Establishing an effective energy management program
- Techniques for working with people

\* **NOTE:** See the individual course page online for a more complete description of the course. The content of sessions is continually updated to assure timeliness and meet attendees' needs.



## EM 2

July 29 - Aug. 2, 2024

### Improving Equipment Efficiencies

#### ATTEND AND YOU WILL LEARN\*

- Compressed air systems
- Industrial and commercial ventilation
- Geothermal heat pump
- Energy-efficient lighting
- Boilers and steam systems
- Fundamentals of HVAC systems
- Electric motors and power quality
- Building automation and EMS

## EM 3

Oct. 21-25, 2024

### Industrial and Commercial Energy, Process and Building Analysis

#### ATTEND AND YOU WILL LEARN\*

- Building envelope analysis
- Thermal energy storage
- Process energy analysis/cogeneration
- Chillers/cooling towers
- DDC controls specifications, procurement, and commissioning
- Hydronic systems
- High-performance building envelopes



12405

## Where to Stay

Lodging and evening meals are not included in your registration fee.

Sleeping accommodations are available at several hotels convenient to the McKimmon Center, but please note that these hotels are not within walking distance.

For lodging information, please visit [go.ncsu.edu/hotels](http://go.ncsu.edu/hotels).

## Schedule and Location

Check-in is held from 8 to 8:30 a.m. with class from 8:30 a.m. to 5 p.m. on the first day, from 8 a.m. to 5 p.m. Tuesday, Wednesday, and Thursday, and from 8 a.m. to noon on Friday.

In-person classes will be held at the McKimmon Conference and Training Center, conveniently located on the NC State University campus at the corner of Western Boulevard and Gorman Street in Raleigh, NC. Driving to the McKimmon Center is easy and public parking is plentiful.

If you are a person with a disability and desire any assistive devices, services or other accommodations to participate in these courses, please email

[ContinuingEducation@ncsu.edu](mailto:ContinuingEducation@ncsu.edu) to discuss accommodations at least two weeks in advance.

## Registration Fees

**\$1,995** Early\*

**\$2,195** Regular

**\$1,795/\$1,995\*** for each additional registration from the same organization and for government employees.

\*To save money, you must register and pay at least two weeks prior to the start of the course.

**Your registration fee includes** your comprehensive class materials, an Energy Management shirt upon completion of your diploma, luncheons and breaks (in-person classes only), and a university certificate.

### ALSO AVAILABLE TO YOU!

## The Facilities Engineering Management Diploma (FEM)

You will receive the Facilities Engineering Management Diploma upon the successful completion of three one-week courses totaling 96 contact hours of maintenance, electrical, mechanical, environmental, health and safety, construction, energy conservation, and management instruction.

**For more information, go to [go.ncsu.edu/fem](http://go.ncsu.edu/fem)**

### Upcoming Sessions:

**FEM 1: Dec. 4-8, 2023**

**FEM 2: March 11-15, 2024**

**FEM 3: June 3-7, 2024**

FEM classes will be held at the McKimmon Conference and Training Center, NC State University, Raleigh.

### Put the power of the Pack to work for you!

Whether you are looking for an individual course or a series of classes to earn a certificate, **Customized Training and Development** can personalize a program for your organization.

Contact Annette Jeffes in Customized Training and Development at **919.513.5080** or [asjeffes@ncsu.edu](mailto:asjeffes@ncsu.edu) to learn how to custom design training for your employees' needs.