Spring 2027 Schedule of Courses

NAPE
EDUCATIONAL FOUNDATION
HANDS-ON EDUCATION FOR BUILDING ENGINEERS

For nearly 30 years, the NAPE Educational Foundation, a nonprofit 501(c)(3) organization, has been dedicated to training engineers across all skill levels and backgrounds. Our mission is to consistently deliver high-quality training that not only meets, but exceeds the expectations of today's employers.

Ready for your next class?

5520 Cherokee Ave • suite 110 • Alexandria, Virginia 22312
Tel: 703.845.7055 • info@napeef.org • www.napeef.org

ENTRY LEVEL

READY TO WORK – 60 HOURS

Tuition: $1,150 • Total: $1,150

The National Association of Power Engineers (NAPE) Educational Foundation is pleased to announce its new Ready to Work Engineering Kick-Start Program designed to provide you with the training you need to get started in this exciting career as an entry level building engineer. You'll learn the basics of Career/Outlook and Professionalism, HVAC, Electrical Maintenance, Plumbing, Fire Alarm/Safety and more. A job fair will be included to help you put your training to use after you have successfully completed The Ready to Work Program.

READY TO WORK - S27-150-AL **Monday & Thursday,** February 1, 2027 - April 12, 2027	Duration: 10 Weeks (M & TH)	**5:30 pm to 8:30 pm** Location: Alexandria, VA Instructor: Eduardo Ayala
READY TO WORK - S27-151-GR **Monday & Thursday,** February 8, 2027 - April 22, 2027	Duration: 10 Weeks (M & TH)	**5:00 pm to 8:00 pm** Location: Greenbelt, MD Instructor: Francis Ayensu

GENERAL CERTIFICATES OF NAPEEF

Only one course taken at another school will be accepted, and a substitute NAPEEF course must be taken for certification.

The NAPEEF Certificate Program requires students to successfully complete a series of NAPEEF classes in order to qualify for each certificate in the program. These classes have been developed to provide the technical expertise needed to effectively work and advance within the building operations and maintenance profession, and to provide assurance to employers of a level of competency. Deadline January 8 and July TBD.

General Certificate of Engineering Proficiency
POE, LPB, ACI, ESCT, Controls I
General Certificate of Electrical Proficiency
POE, Electric Motors, ESCT, Schematics
General Certificate of AirConditioning and Refrigeration
POE, AC1, AC2, AC3, Heat Pumps, Refrigeration, CFC Universal, R 410-A Certification, A2L Certification
Certified Supervising Engineer
POE, AC3, Heat Pumps, The Managing Engineer, Controls, Blueprint Reading, ESCT, Schematics, HPB



***Some courses may require prerequisites. Contact info@napeef.org for more information or visit our website www.napeef.org*

THERE WILL BE NO CLASSES ON:

Martin Luther King Jr Day, Mon. Jan18
President's Day, Mon. Feb 15
Memorial Day, Mon. May 31
Juneteenth, Fri. June 18
Independence Day, Mon. Jul 5
Labor Day, Mon. Sept. 6
Columbus Day, Mon. Oct. 11
Veteran's Day, Thurs. Nov. 11
Thanksgiving, Thurs. Nov. 25
Christmas Day, Fri. Dec. 24
New Year's Day, Fri. Dec. 31, 2028

CANCELLATION & REFUND POLICY

Students who cancel their enrollment more than 14 calendar days before the first scheduled class are eligible for a full refund of tuition and other refundable charges minus a 3% credit card processing fee (if applicable). Students who cancel their enrollment 14 calendar days or fewer before the first scheduled class, but before the class begins, are eligible for a refund of tuition minus a $250 late cancellation fee. If a student cancels on or after the first scheduled class, no tuition refund will be issued. However, the tuition paid may be applied as a credit toward re-enrollment within one (1) year of the original start date. Any applicable tuition difference for the new enrollment may apply. Cancelations for credit must occur before the third scheduled class. Books and course materials are refundable only if they have not yet been received by the student. Once books or materials have been received, they are non-refundable. All cancellation requests must be submitted in writing and are effective on the date they are received by the school. Cancellation requests must be emailed to info@napeef.org. The effective date of cancellation is the date the written request is received by the school. Refunds issued by check will take a minimum of 10 business days to process. EFFECTIVE 8.3.26

LOCATION

Alexandria,VA (AL): 5520 Cherokee Avenue, Alexandria,VA 22312
Greenbelt, MD (GR): Hanover Office Park, located at 7213 Hanover Parkway, Greenbelt, MD 20770

ELECTRICAL

PRINCIPLE OF ELECTRICITY – 30 HOURS

Tuition: $830 • Books: $264.15 • Tax: $15.85 • Total: $1,100

No prerequisites required. *This is a beginner's coursewhichstarts with thebasic elements of circuitry, safety rules, understanding of terminology and simple mathematical calculations. It prepares the student for all other aspects of engineering. This course is designed to allow the student to progress directly to our Electrical Systems, Code and Theory course.* This is not a wiring class. *This course is required for* all NAPEEF's e*lectrical* classes*, and Air Conditioning II.* ***Basic English and math skills required.***

PRINCIPLES OF ELECTRICITY S27-200-AL **Monday & Thursday,** January 25, 2027 - March 8, 2027	Duration: 6 Weeks (M & TH)	**5:30 pm to 8:30 pm** Location: Alexandria, VA Instructor: Sean McRunnel
PRINCIPLES OF ELECTRICITY S27-201-AL **Wednesday,** February 3, 2027 - April 21, 2027	Duration: 12 Weeks	**5:00 pm to 8:00 pm** Location: Alexandria, VA Instructor: John Hughes
PRINCIPLES OF ELECTRICITY S27-202-GR **Wednesday,** February 17, 2027 - May 5, 2027	Duration: 12 Weeks	**5:00 pm to 8:00 pm** Location: Greenbelt, MD Instructor: Alex Colvin
PRINCIPLES OF ELECTRICITY S27-203-AL **Monday & Thursday,** April 19, 2027 - May 27, 2027	Duration: 6 Weeks (M & TH)	**5:30 pm to 8:30 pm** Location: Alexandria, VA Instructor: Eduardo Ayala

SCHEMATICS – 30 HOURS

Tuition: $843 • Books: $193.40 • Tax: $11.60 • Total: $1,048

Completion of Principles of Electricity course is required. *A basic understanding of A/C and electrical components and how they apply to HVAC is necessary before taking this course. Curriculum includes wiring, diagrams, symbols, legends, walk thru and troubleshooting of ladder wiring diagrams .*

SCHEMATICS S27-210-AL **Tuesday,** January 26, 2027 - March 30, 2027	Duration: 10 Weeks	**5:30 pm to 8:30 pm** Location: Alexandria, VA Instructor: Eduardo Ayala

ELECTRICAL SYSTEMS, CODE & THEORY– 60 HOURS

Tuition: $1,300 • Books: $448.11 • Tax: $26.89 • Total: $1,775

Completion of the Principles of Electricity course is required, and intermediate English skills are necessary. *This intermediate-level course will focus on electrical principles and components, inductance and capacitance, motors and motor starters, measuring instruments and their use; single and three phase fundamentals, various in-class exercises; alternating current characteristics; safety; electrical formulas and their applications. This course will explore and clarify updated code information. Please note: This is not a wiring class. As time permits there may be some hands-on exercises.*

ELECTRICAL SYSTEMS, CODE & THEORY S27-230-AL **Wednesday**, March 17, 2027 - June 30, 2027	Duration: 16 Weeks	**5:30 pm to 9:00 pm** Location: Alexandria, VA Instructor: Sean McRunnel

ELECTRIC MOTORS– 30 HOURS

Tuition: $951 • Books: $140.57 • Tax: $8.43 • Total: $1,100

Completion of Principles of Electricity course is required. *Completion of the Principles of Electricity course is required. This course will focus on single-phase and three-phase A/C motors. How motors start and run, electromagnetism, and practical applications of induction type. Split-phase and capacitor type motors will be covered. Basic English and Math skills required*

ELECTRIC MOTORS S27-220-AL **Wednesday,** March 24, 2027 - May 26, 2027	Duration: 10 Weeks	**5:30 pm to 8:30 pm** Location: Alexandria,VA Instructor: Eduardo Ayala

BOILERS

LOW PRESSURE BOILERS – 60 HOURS

Tuition: $1,195 • Books: $147.17 • Tax: $8.83 • Total: $1,351

This is a beginner's class for those who wish to get the basic knowledge of "steam and hot water heating systems." This provides the basic information to put you on the road to becoming a licensed engineer. This is not a prep course for the 6th Class license, although it may be useful. Intermediate English skills required. Course Curriculum Covers: Boilers: boiler room safety; boiler fittings; boiler room terminology; feed water accessories; fuel oil systems; combustion accessories; feed water systems; draft systems; water treatment; steam systems and boiler operations.

LOW PRESSURE BOILERS - S27-310-AL **Monday and Thursday,** January 25, 2027 - April 5, 2027	Duration: 10 Weeks (M & TH)	**5:00 pm to 8:30 pm** Location: Alexandria, VA Instructor: Mario Cerritos
LOW PRESSURE BOILERS - S27-311-GR **Monday and Thursday,** February 8, 2027 - April 19, 2027	Duration: 10 Weeks (M & TH)	**5:00 pm to 8:30 pm** Location: Greenbelt, MD Instructor: Rogers Simmons
LOW PRESSURE BOILERS - S27-312-AL **Wednesday,** February 17, 2027 - June 2, 2027	Duration: 16 Weeks	**5:00 pm to 8:30 pm** Location: Alexandria,VA Instructor: Mario Cerritos
LOW PRESSURE BOILERS - S27-314-GR **Monday and Thursday,** April 26, 2027 - July 8, 2027	Duration: 10 Weeks (M & TH)	**5:00pmto 8:30 pm** Location: Greenbelt, MD Instructor: Roger Simmons

HIGH PRESSURE BOILERS – 60 HOURS

Tuition: $1,505 • Books: $240.57 • Tax: $14.43 • Total: $1,760

Completion of a Low Pressure Boiler Course, or Licensure (DC 6; MD 3; NIULPE 3) is required. *This is curriculum based on selected study materials for the DC Licensing Exam. Because the DC 3rd class test covers more than just steam, this course is not advertised as a prep course, but it focuses on the exam. Course Curriculum Covers: High pressure boilers; boiler fittings; water treatment; fuels and firing equipment; pumps; steam engines; automatic boiler control; boiler operation/maintenance and duplex pumps.*

HIGH PRESSURE BOILERS - S27-320-AL **Tuesday,** February 16, 2027 - June 29, 2027	Duration: 20 Weeks	**5:00 pm to 8:00 pm** Location: Alexandria, VA Instructor: Tim Tucker
HIGH PRESSURE BOILERS - S27-321-GR **Tuesday,** February 16, 2027 - June 29, 2027	Duration: 20 Weeks	**5:00 pm to 8:00 pm** Location: Greenbelt, MD Instructor: Alex Colvin

CONTROLS

CONTROLS – 60 HOURS

Tuition: $1,435 • Books: $250 • Tax: $15 • Total: $1,700

Prerequisites are Principles of Electricity and Air Conditioning I*. This 60hours course will cover basic building operations and HVAC systems, as they relate to control systems and components. Specific subjects include: on-off control, switching, control methods, control strategies and control components. Control systems terminology will also be covered, along with input and output measuring methods, psychometrics and control logic. Basic English and Math skills required.*

CONTROLS - S27-502-AL **Wednesday**, February 10, 2027 - May 26, 2027	Duration: 16 Weeks	**5:00 pm to 8:30 pm** Location: Alexandria, VA Instructor: Donald Haycraft

AIR CONDITIONING

AIR CONDITIONING I – 60 HOURS

Tuition: $1,400 • Books: $240.57 • Tax: $14.43 • Total: $1,655

This entry-level course *concentrates on basic refrigeration circuits up to 20 ton package and split systems - air and water-cooled. The goal is for students to develop a basic understanding of the refrigeration cycle and its components. Students are required to attend one weekend lab session. Intermediate English skills are required.*

AIR CONDITIONING I 26F-444-AL **Tuesday,** December 8, 2027 - March 23, 2027	Duration: 16 Weeks	**5:00 pm to 8:30 pm** Location: Alexandria, VA Instructor: Jason Trotman
AIR CONDITIONING I S27-440-GR **Monday & Thursday,** January 4,2027 - March 4, 2027	Duration: 8 Weeks (M & TH)	**5:00 pm to 8:30 pm** Location: Greenbelt, MD Instructor: Carlos Lopez
AIR CONDITIONING I S27-441-AL **Thursday,** February 18, 2027 - June 3, 2027	Duration: 16 Weeks	**5:00 pm to 8:30 pm** Location: Alexandria, VA Instructor: Jason Trotman
AIR CONDITIONING I S27-442-AL **Tuesday,** March 30, 2027 - July 13, 2027	Duration: 16 Weeks	**5:00 pm to 8:30 pm** Location: Alexandria, VA Instructor: Jason Trotman

AIR CONDITIONING II – 60 HOURS

Tuition: $1,505 • Books: $240.57 • Tax: $14.43 • Total: $1,760

Completion of Air Conditioning I and Principles of Electricity course is required. *This course covers step- by-step methods of analyzing why a system will not run or is inefficient. Procedure taught in service person's language. Electrical and mechanical problems and solutions are covered. Students may be advised to transfer to a lower level course based on a pretest. The textbook is the same as A/C I. Students are required to attend two (2) lab sessions on two weekends. Intermediate English skills required.*

AIR CONDITIONING II S27-450-AL **Monday**, February 1, 2027 - May 24, 2027	Duration: 16 Weeks	**5:00 pm to 8:30 pm** Location: Alexandria, VA Instructor: David Umana
AIR CONDITIONING II S27-451-GR **Tuesday**, February 23, 2027 - June 8, 2027	Duration: 16 Weeks	**5:00 pm to 8:30 pm** Location: Greenbelt, MD Instructor: Francis Ayensu

HEAT PUMPS – 60 HOURS

Tuition: $1,400 • Books: $228.30 • Tax: $13.70 • Total: $1,642

Completion of Air Conditioning II classes is required. *This course specifically covers heat pump operation cycle and efficiency, compressors and motor controls, refrigerant controls, reversing valves, air and water coils, defrosting cycles, supplemental heat, service and troubleshooting and wiring diagrams. Students may be advised to transfer to a lower level course based on a pretest. Advanced English skills required.*

HEAT PUMPS - S27-470-AL **Tuesday,** February 16, 2027 - June 1, 2027	Duration: 16 Weeks	**5:00 pm to 8:30 pm** Location: Alexandria, VA Instructor: Jose Villalobos

AIR CONDITIONING III – 60HOURS

Tuition: $1,345 • Books: $240.57 • Tax: $14.43 • Total: $1,600

Completion of Heat Pumps courses is required. *This course will focus on large commercial systems including, but not limited to: The study of Psychometrics, Air and Water balancing, Heat load calculations, Chiller Systems, Chiller simulation hands-on experience, Understanding VAV operation, EMS electrical savings, Review of plant operations, Pumps and Cooling towers, Heat Pumps and Troubleshooting Gas and Oil Rooftop units. Students may be advised to transfer to a lower level course based on a pretest.*

AIR CONDITIONING III - S27-460-AL **Wednesday,** February 24, 2027 - June 9, 2027	Duration: 16 Weeks	**5:00 pm to 8:30 pm** Location: Alexandria, VA Instructor: Jose Villalobos

AIR CONDITIONING

REFRIGERATION - 60 HOURS

Books-$286.00 • Tax-$17.16 • Tuition: $1,344.34 • Total $1,647.50

Completion of Air Conditioning II courses are required. *This course will concentrate on commercial refrigeration and ice machines. The course will cover installation and service of walk-ins, reach-ins, and ice machines as used primarily in the food service industry and in retail stores. Intermediate English skills required.*

Refrigeration: S27-480-AL
Monday, March 1, 2027 - June 21, 2027

Duration: 16 Weeks

5:00 pm to 8:30 pm
Location: Alexandria,VA
Instructor: John Hughes

MISCELLANEOUS

VA JOURNEYMAN & MASTER MECHANICAL PREP COURSE – 45 HOURS

Books $396 • Tax $24 • Tuition: $1,120.00 • Total $1,540

A review for air conditioning, heating, sheet metal, and plumbing mechanics, preparing for the VA Journeyman or Master Mechanical License exams. For license information, call (804) 367-8500. Virginia and Maryland licenses are now reciprocal.

VA Journeyman & Master Mechanical
Coming Fall 2027

Duration: 15 Weeks

5:00 pm to 8:00 pm
Location: TBD
Instructor: TBS

LEED GREEN ASSOCIATE PREP COURSE – 16 HOURS

Material $220 • Tuition: $430.00 • Total $650.00

The LEED Green Associate (LEED -GA) credential is intended for professionals who want to demonstrate Green Building expertise in non-technical fields of practice. The Green Building Certification Institute (GBCI) has created this credential, which denotes basic knowledge of green design, construction and operations. Applications and fees for the LEED-GA examination are conducted through GBCI. Completion of this seminar is required for the Certified Supervising Engineer (CSE) Certificate.

LEED Green Associate (LEED-GA)
Coming Fall 2027

Duration: 4 Weeks

4:00 pm to 8:00 pm
Location: TBD
Instructor: TBD

THE MANAGING ENGINEER - 45 HOURS

Tuition: $1,050 • Total: $1,050

This course is recommended for individuals who have several years in the field and desire to learn the many aspects of a supervisor's fiduciary duties and responsibilities that they will encounter as a Managing Engineer. This course provides the student with an understanding and introduction to the tools, management skills, objectives, and general knowledge and understanding a supervisor needs to become an effective manager and leader. The course curriculum also covers the following: Business Writing (reports and email communication), Project Management, Organizational Skills, and Crisis Management. This course is required to receive the Supervising Engineer Award. Advanced English skills required.

THE MANAGING ENGINEER - S27-710-AL
Thursday, March 11, 2027 - June 17, 2027

Duration: 15 Weeks

4:00 pm to 7:00 pm
Location: Alexandria, VA
Instructor: Nelson Peguero

MISCELLANEOUS

BLUEPRINT READING – 30 HOURS

Tuition: $900 • Books: $195.28 • Tax: $11.72 • Total: $1,107

No pretest is required for this course. This course is designed to provide information on reading and interpreting building plans and specifications. Types of drawings, details, symbols, and schedules are introduced. Upon course completion, students will be able to understand the drawings and schematics for their buildings, increasing their ability to communicate with contractors, architects and management. Intermediate English skills required.

BLUEPRINT READING - S27-700-AL
Monday, March 29, 2027 - June 7, 2027
Duration: 10 Weeks
5:30 pm to 8:30 pm
Location: Alexandria, VA
Instructor: Sean McRunnel

SEMINARS

CFC SEMINAR & TEST - 12HOURS

Tuition: $580 • Total $580 (Test Included)

In this EPA approved program, topics will include CFC containment methods, legal requirements, existing and new refrigerants, and basic understanding of the refrigeration cycle and system components. Format: Seminar for four sessions. Exam is on the last session.

CFC SEMINAR & TEST
Monday, February 22, 2027 - March 15, 2027
Duration: 4 Weeks
5:00 pm to 8:00 pm
Location: Alexandria,VA
Instructor: Jose L Villalobos

CFC SEMINAR & TEST
Monday, April 5, 2027 - April 26, 2027
Duration: 4 Weeks
5:00 pm to 8:00 pm
Location: Alexandria,VA
Instructor: Jose L Villalobos

Dates for CFC Testing & Retesting in Alexandria, VA on the third FRIDAY of the month at 1 pm only call for dates. Please call for information 703-845-7055. No PO's accepted for payment. Registration closes Thursday prior to testing. Retest $70 (if last test taken within three months). For Students who believe that they don't need the seminar before taking the examination, a $175 fee will be charged for taking the first test. If the student fails the test a $90 charge will be assessed for a retest if taken within three months of the original test.

R-410 A SEMINAR

Tuition: 300 • Total $300 (Test Included)

Prerequisites: Air Conditioning I and CFC Universal. *This seminar will cover characteristics (pressures, etc.) of 410-A; evacuation requirements; servicing; installation; disposal; safety; cylinders, etc. The seminar is an exam preparation for NAPE's 410-A Certification test, which is administered at the end of the seminar. R-410 A Certification is requiredfor the GCAR Certificate.*

R-410A and NEW REFRIGERANTS SEMINAR
Saturday,March 6, 2027
Duration: 1 Day
8:00 am to 2:00 pm
Location: Alexandria, VA
Instructor: Jose L Villalobos

A2L NEW REFRIGERANT SEMINAR

Tuition: 400• Total $400 (Test Included)

Prerequisites: Air Conditioning I and CFC Universal. *This seminar will cover characteristics of A2L; new tool requirements, charging; safety; HFC equipment availability, different refrigerants; etc. The seminar is an exam preparation for NAPE's A2L Certificate test, which is administered at he end of the seminar. A2L Certification is required for the GCAR Certificate.*

A2L NEW REFRIGERANT SEMINAR
Saturday, February 13, 2027
Duration: 1 Day
8:00 am to 3:00 pm
Location: Alexandria, VA
Instructor: Jose L Villalobos