Continuing Education Classes from Sept. 2019 to Apr. 2020

Per the Agreement with Mechanical Contractors Association of Omaha, Inc., Article IV, Proficiency Improvement, each member shall complete a minimum of eight (8) hours of upgraded Journeymen Training annually. A maximum of four (4) hours in excess of those required may be carried to the next year. The minimum training requirements became effective for the 2002-2003 contract years and each year thereafter for the term of the Agreement. Credit for classes taken will be calculated at 2:1 ratio for the number of hours the class is held; except for first aid & CPR which will be calculated at 1:1 ratio. Members who first receive and then renew their 30 hour OSHA certification every five (5) years will be credited for two (2) eight (8) hour years of upgraded Journeymen Training in both the year the certification or recertification is received and the year immediately following that year. Members who obtain and maintain a license to work in Bellevue, Lincoln or Fremont, Nebraska shall receive four (4) credit hours of upgraded Journeyman Training for each license held. Journeymen obtaining and maintaining a license to work in the State of Iowa shall receive eight credit hours of upgraded Journeyman Training. Members must submit license renewals before May 1st for hours to be credited for that school year.

EXAMPLE: If you successfully complete a 24 hour class, then you will have earned twelve (12) hours of upgraded Journeymen Training Hours of continuing education hours (CEH). The eight (8) hour requirement of Continuing Education will be fulfilled for that contract year and you have earned an extra four (4) hours of class room hours that will be rolled over to the next contract year.

Any union member maintaining the following license and certification shall receive two (2) hours of upgraded Journeyman Training.

- A current UA Weld Certification
- A current Med-Gas Installer and Braze Certification
- A current ACAD License

EXAMPLE: If you have: CPR / First Aid / EAD Class = 4 continuing education hours
UA weld / Med-gas Braze Certification = 2 continuing education hours
Bellevue License = 4 continuing education hours
Total upgraded 2016-2017 year = 10 continuing education hours

1. CPR/ 1st Aid Certifications are good for 2 years, but will only count towards Continuing Education hours the year you take the class.

2. No Contractors Safety meetings or job site Safety meetings will count towards education hours.

3. No classes held at the job sites during the work day will count towards education hours.

Those individuals not in compliance with the eight (8) hour upgraded Journeyman Training will not receive the raise for that contract year or any subsequent contract year in which the requirement is not met. You will need to make up the hours in the year you are delinquent plus the hours for the current contract year to become eligible for your raise.

The following classes have been approved by the Labor/Management Committee. If you have any questions about the Continuing Education, please feel free to call the Omaha Training Center at 333-5859 or toll free at 877-675-9911.

Please call 2 to 3 days before your class begins, to make sure the class is still on.

A class will be cancelled if the minimum number Of 5 members has not signed up!
IOWA PLUMBING & MECHANICAL SYSTEMS
Continuing Education Requirements for Licensees

Classes from Sept. 2019 to Apr. 2020

The continuing education compliance period shall begin on the date the license is issued and end on the date the license expires.

SINGLE LICENSE

Each three year license period, a master or journey licensee holding a single trade license is required to complete a minimum of 8 hours of board-approved continuing education. The required distribution of hours is as follows:

EXAMPLE:

4 hours in the prescribed practice discipline (Mechanical, Hydronics, HVAC, Refrigeration or Plumbing)
2 hours (minimum) applicable Iowa Mechanical or Plumbing Code.
2 hours in Safety the content area of the OSHA or CPR / 1st Aid / EAD

MULTIPLE LICENSES

Each two year license period a master or journey licensee holding a multiple trade license is required to complete 16 hours of board-approved continuing education. The required distribution of hours is as follows:

EXAMPLE:

8 hours in any of the prescribed practice discipline (Mechanical, Hydronics, HVAC, Refrigeration or Plumbing)
2 hours (or 4 hours) applicable Iowa Mechanical or Plumbing Code.
   (Note: If you hold a license under both plumbing and mechanical code this number will be 4 hours.)
4 hours in Safety the content area of the OSHA or CPR / 1st Aid / EAD

Please call 2 to 3 days before your class begins, to make sure the class is still on.

A class will be cancelled if the minimum number of members has not signed up!
CONTINUING EDUCATION CLASSES
Omaha Training Center
Local 464 Continuing Education
State of Iowa Continuing Education

FOR MEMBERS WHO HAVE AN (IOWA) LICENSE YOU MUST BRING YOUR LICENSE TO CLASS TO RECEIVE CREDIT FOR THE CLASS.

1.) C.P.R. & 1ST Aid & AED Training Classes:  (4 CEH 464) (4 Safety Iowa) (4 Lincoln HVAC)

This class is for members to renew their CPR & 1st Aid & AED, and for members who do not have CPR & 1st Aid Training & AED. This class is a (4) hour class. Upon the completion of this class, you will have a hands-on test. You must attend all 4 hours to receive your Continuing Education hours. These CPR & 1st Aid & AED classes will be held at Both Training Centers on the following days.

**Omaha Training Center:**
- Monday September 9, 2019 from 5:00 p.m. to 9:00 p.m.
- Monday October 07, 2019 from 5:00 p.m. to 9:00 p.m.
- Monday November 04, 2019 from 5:00 p.m. to 9:00 p.m.
- Monday March 09, 2020 from 5:00 p.m. to 9:00 p.m.
- Monday April 06, 2020 from 5:00 p.m. to 9:00 p.m.
- Saturday March 14, 2020 from 7:30 a.m. to 11:30 a.m.
- Saturday April 11, 2020 from 7:30 a.m. to 11:30 a.m.

**Lincoln Training Center:**
- Monday October 21, 2019 from 5:30 p.m. to 9:30 p.m.
- Saturday January 25, 2020 from 7:30 a.m. to 11:30 a.m.
- Saturday February 08, 2020 from 7:30 a.m. to 11:30 a.m.
- Saturday April 25, 2020 from 7:30 a.m. to 11:30 a.m.

2.) Journeyman Omaha City License:  (8 Hydronic or 8 HVAC or 8 Refrigeration Iowa)
   (12 CEH 464) (8 Lincoln HVAC)

**THIS CLASS IS LIMITED TO MEMBERS THAT NEED A JOURNEYMAN STEAMFITTER OMAHA LICENSE ONLY.**

This class is for members who do not have a City of Omaha Steamfitters License. This Class will meet three (3) hours a night for ten (10) weeks. You must attend all 30 hours to receive your continuing education hours. Upon the completion of this class, you will take the Omaha City License test at a cost of $35.00 to you. The Journeyman Steamfitter Omaha City License class will begin on the following days.

This class will begin on Tuesday September 10, 2019 from 5:00 p.m. to 8:00 p.m.
This class will begin on Tuesday February 25, 2020 from 5:00 p.m. to 8:00 p.m.
3.) **Med-Gas License Class:** (8 Hydronic Iowa) (12 CEH 464) (10 Lincoln Plumbing)

This class is for members who do not have a Med-Gas License. This class is a 40 hour class, meeting three (3) hours a night for thirteen (13) weeks. You must attend all 40 hours to receive your Continuing Education hours. Upon the completion of this class, you will take a written test, and a braze test, Proctored by NITC at a cost of $116.00 to you. This class will be held at the Omaha Training Center. The Med-Gas License class begins on the following days.

   - This class will begin on Tuesday September 10, 2019 from 5:00 p.m. to 8:00 p.m.
   - This class will begin on Tuesday February 25, 2020 from 5:00 p.m. to 8:00 p.m.

4.) **Welding Classes:** (8 Hydronic Iowa) (12 CEH 464) (8 Lincoln HVAC)

This class is for all members who want basic skills and for members to sharpen their skills. This class is a 24 hour class, meeting three (3) hours a night for eight (8) weeks. You must attend all 24 hours to receive your Continuing Education hours. There will be two (2) classes, one will start in September and one will start in January. These Welding class will be held at the Omaha Training Center and begin on the following days. **THE FIRST (12) MEMBERS**

   - This class will begin on Wednesday September 11, 2019 from 5:00 p.m. to 8:00 p.m.
   - This class will begin on Wednesday February 26, 2020 from 5:00 p.m. to 8:00 p.m.

5.) **2 hour OSHA & Safety Classes** (2 Safety Iowa) (1 CEH 464)
   (2 Lincoln Plumbing) (2 Lincoln HVAC)

This class is for members who need 2 hours of Safety Training for the Iowa License renewal. The OSHA Safety classes will be held at the Omaha Training Center and begin on the following days. Each class will have a different Safety topic.

   - Tuesday September 10, 2019 from 5:00 p.m. to 7:00 p.m.
   - Tuesday October 15, 2019 from 5:00 p.m. to 7:00 p.m.
   - Tuesday February 18, 2020 from 5:00 p.m. to 7:00 p.m.
   - Tuesday April 07, 2020 from 5:00 p.m. to 7:00 p.m.

6.) **10 hour OSHA Classes:** (8 Safety Iowa) (5 CEH 464) (10 Lincoln Plumbing) (10 Lincoln HVAC)

This class is for members who do not have a 10 hour OSHA card or want to learn more about Safety & OSHA. This class is a 10 hour class, meeting two (2) consecutive Saturdays. You must attend all 10 hours to receive your Continuing Education hours. Upon the completion of this class, you will take a written test. The OSHA Safety Classes will be held at the Omaha Training Center and begin on the following days.

   - This class will begin on Saturday Start October 26, 2019 from 7:00 am to 4:00 pm
     Wed. 30, from 5:00pm to 9:00pm
   - 30 Hour & 10 Hour OSHA
     Start February 15, 2020 from 7:00 am to 4:00 pm
     Wed. 19, from 5:00pm to 9:00pm
     Start April 11, 2020 from 7:00 am to 4:00 pm
     Wed. 15, from 5:00pm to 9:00pm

7.) **30 hour OSHA Class:** (8 Safety Iowa) (12 CEH 464) (8 Lincoln HVAC)

This class is for members who do not have a 30 hour OSHA card or want to learn more about Safety & OSHA. This class is a 30 hour class, meeting two (2) Saturdays for 7 ½ hours, and three (3) nights for 5 hours. You must attend all 30 hours to receive your Continuing Education hours. Upon the completion of this class you will take a written test. The class will be held at the Omaha Training Center.

   - This class will begin on Saturday September 07, 2019 from 7:00 a.m. to 3:00 p.m.
   - This class will begin on Saturday March 7, 2020 from 7:00 a.m. to 3:00 p.m.
8.) **Prometric Bellevue License Class:** (12 CEH Omaha) (6 Lincoln HVAC)
(6 Lincoln Plumbing) (4 Mech. Code or 8 Hydronic or Refrigeration or HVAC Iowa)

This class is for members who do not have a Bellevue License. This class is a 36 hour class, meeting three (3) hours a night for twelve (12) weeks. You must attend all 36 hours, to receive your Continuing Education hours. Upon the completion of this class, you will take the Prometric License test at a cost of $90.00 to you will be able to obtain a Bellevue license by receiving a 75% or better on the exam. This class will be held at the Omaha Training Center and begin on the following day.

This class will begin on Wednesday September 11, 2019 from 5:30 p.m. to 8:30 p.m.

9.) **Iowa License Class:** (12 CEH 464) (4 Mech. Code or 8 Hydronic or Refrigeration or HVAC Iowa)

This class is for members who do not have a State of Iowa License. This class is a 36 hour class, meeting three (3) hours a night for twelve (12) weeks. You must attend all 36 hours, to receive your Continuing Education hours. Upon the completion of this class, you will submit your application at a cost to you of $35.00. After approval you will take the exam at a cost of $95.00 to you for each License. You will be able to obtain a State of Iowa license by receiving a 75% or better on the exam. This class will be held at the Omaha Training Center and begin on the following day.

**THIS CLASS TO BE SCHEDULED FOR A LATER DATE!**

**Mechanical** (combination of HVAC, Refrigeration and Hydronic)

10.) **Basic Water Chillers Class:** (8 Hydronic Iowa) (8 CEH 464)
**First Five (5) Members**

This class will have strong emphasis on Basic Centrifugal Chiller principals, while also highlighting basic Reciprocating Screw and Scroll technology. It will cover technical information, basic refrigeration principals, operation and maintenance, and troubleshooting. This class will meet four (4) hours a night for (4) weeks. You must attend all 16 hours to receive your Continuing Education hours. This class will be held at the Omaha Training Center and begin on the following days.

This class will begin on Wednesday September 11, 2019 from 5:00 p.m. to 9:00 p.m.
This class will begin on Wednesday February 26, 2020 from 5:00 p.m. to 9:00 p.m.

11.) **Advanced Centrifugal Water Chillers Class:** (8 Hydronic Iowa) (10 CEH 464)

**Prerequisite: Basic Water Chillers Class, or (equivalent experience)**

This class will have strong emphasis on Centrifugal overhaul procedures. The course shall cover; precision measuring techniques, a step by step Centrifugal tear-down procedure, and give the member a good working knowledge of Centrifugal compressor design and operation. This class will meet four (4) hours a night for five (5) weeks. You must attend all 20 hours to receive your Continuing Education hours. The Advanced Centrifugal Water Chillers class, will be held at the Omaha Training Center and begin on the following days. **First Five (5) Members**

This class will begin on Wednesday April 01, 2020 from 5:00 p.m. to 9:00 p.m.
12.) **UA Welding Certification Class:** (8Hydronic Iowa)  (10 CEH 464)

This class is for members who have the skills to make a Certification Weld. This class will meet Four (4) hours a night for three (3) weeks for practice and One (1) Saturday to take the UA weld test. You must attend all 20 hours to receive your Continuing Education hours. The UA Welding Certification class will be held at the Omaha Training Center and begin on the following days.

- Practice Tuesday October 01, 2019 5:00 pm to 9:00 pm  
  Test on October 19, 2019 7:00 am
- Practice Tuesday October 22, 2019 5:00 pm to 9:00 pm  
  Test on November 9, 2019 7:00 am
- Practice Tuesday February 04, 2020 5:00 pm to 9:00 pm  
  Test on February 22, 2020 7:00 am
- Practice Tuesday March 03, 2020 5:00 pm to 9:00 pm  
  Test on March 21, 2020 7:00 am
- Practice Tuesday April 07, 2020 5:00 pm to 9:00 pm  
  Test on April 25, 2020 7:00 am

13.) **Orbital Tube Welding Class:** (8 Hydronic Iowa) (8 CEH 464)

Introduction to Orbital Automatic Gas Tungsten Arc Welding process. This class will teach theoretical basic for weld program development and programming weld equipment. This class will meet four (4) hours a night for four (4) weeks. You must attend all (16) hours to receive your Continuing Education hours. The Orbital welding class will be held at the Omaha Training Center and begin on the following days. **This class is limited to (6) members**

This class will begin on Monday

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>September 09, 2019</td>
<td>from 5:00 p.m. to 9:00 p.m.</td>
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<tr>
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<td>February 03, 2020</td>
<td>from 5:00 p.m. to 9:00 p.m.</td>
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<tr>
<td>March 02, 2020</td>
<td>from 5:00 p.m. to 9:00 p.m.</td>
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<tr>
<td>April 06, 2020</td>
<td>from 5:00 p.m. to 9:00 p.m.</td>
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14.) **Rigging Certification Class:**  (10 Lincoln Plumbing)  (8 Safety Iowa) (12 CEH 464)

This Rigging class is for members who need to know more about Rigging, and for members who want to get a Rigging Certification. The Industrial Rigging Certification for members has a theoretical and a practical component covering the best rigging practices calculating centers of gravity, sling stress, crane set up and the use of tuggers, jacks and rollers. Course requirements: a hands-on performance evaluation, along with a written exam. Upon passing of the written and performance exam the member will receive a UA/EPRI certification for industrial rigging. You must attend all (40) hours to receive your Continuing Education hours. The Rigging Certification class will be held at the Omaha Training Center and begin on the following days. **FIRST 12 MEMBERS**

This class will begin on Tuesday September 17, 2019 from 5:00 p.m. to 9:00 p.m.
This class will begin on Tuesday February 04, 2020 from 5:00 p.m. to 9:00 p.m.

15.) **CFC License:**  (8 HVAC or Refrigeration Iowa)  (10 CEH 464)

This class is for members who do not have a CFC License. This class will meet three (3) hours a night for eight (8) weeks. You must attend all 8 nights of class to receive your Continuing Education hours. Upon the completion of this class, you will take a CFC test. The CFC License class will be held at the Omaha Training Center and begin on the following day.

This class will begin on Tuesday February 11, 2020 from 5:00 p.m. to 8:00 p.m.
16.) **Universal R-410A Certification:** (8 HVAC Iowa) (4 CEH 464)

This class will provide training and certification for experienced HVACR Technicians for proper Safety, handling and application of R-410A refrigerant. This class will meet four (4) hours a night for two (2) weeks for test preparation, examination of proper R-410A equipment and conclude with the R-410A exam at a cost to you of $30.00. This class will be held at the Omaha Training Center

This class will begin on Thursday

November 05, 2019 from 5:00 p.m. to 9:00 p.m.
February 11, 2020 from 5:00 p.m. to 9:00 p.m.

17.) **Pump Shaft Alignment (LASER) Class:** (4 Hydronic Iowa) (2 CEH 464)

This class is to give members a general knowledge of pump alignment and laser alignment. This class is a 4 hour class, meeting one (1) night. You must attend all (4) hours to receive your Continuing Education hours. The Pump Shaft Alignment class will be held at the Omaha Training Center and begin on the following days.

**THIS CLASS IS LIMITED TO 10 MEMBERS PER CLASS**

This class will begin on

Tuesday October 15, 2019 from 5:00 p.m. to 9:00 p.m.
Tuesday November 05, 2019 from 5:00 p.m. to 9:00 p.m.
Tuesday February 25, 2020 from 5:00 p.m. to 9:00 p.m.
Tuesday March 24, 2020 from 5:00 p.m. to 9:00 p.m.
Tuesday April 21, 2020 from 5:00 p.m. to 9:00 p.m.

18.) **2 hour Mechanical Code Class:** (2 Mechanical Codes Iowa) (1 CEH 464) (2 CEH ACAD)

This class is for members who need 2 hours of Mechanical Codes Training for the Iowa License renewal. The Mechanical Codes classes will be held at the Omaha Training Center and begin on the following days. Each class will have different topics.

This class will begin on

Tuesday September 17, 2019 from 5:00 p.m. to 7:00 p.m.
Tuesday October 22, 2019 from 5:00 p.m. to 7:00 p.m.
Tuesday November 19, 2019 from 5:00 p.m. to 7:00 p.m.
Tuesday February 18, 2020 from 5:00 p.m. to 7:00 p.m.
Tuesday March 17, 2020 from 5:00 p.m. to 7:00 p.m.
Tuesday April 14, 2020 from 5:00 p.m. to 7:00 p.m...

19.) **UA/LU 464/MCAO Foreman Certification:** (Twelve (12) CEH-464)

With the UA and MCAA recognizing the need for effective leaders within the organization this course introduces current and potential Foreman to the topics that are critical in the workplace. It will focus on Leadership Functions, Commitment, People Skills, Communications, Teamwork and Organization. This class is a 40 hour class, and will be held at the Omaha Training Center. There will be a test at the end of this class.

This class will begin on

Tuesday September 24, 2019 from 5:00 p.m. to 8:30 p.m.
February 11, 2020 from 5:00 p.m. to 8:30 p.m.
20.) **Total Station Training:** (2 CEH 464)

This class is to give members a general knowledge of Total Station Equipment & set up. This class is a 4 hour class, meeting one (1) night. You must attend all (4) hours to receive your Continuing Education hours. The Total Station Training class will be held at the Omaha Training Center and begin on the following days.

**This class is limited to 10 members per class**

- This class will begin on Monday:  
  - September 16, 2019 from 5:00 p.m. to 9:00 p.m.  
  - October 21, 2019 from 5:00 p.m. to 9:00 p.m.  
  - November 18, 2019 from 5:00 p.m. to 9:00 p.m.
  - February 17, 2020 from 5:00 p.m. to 9:00 p.m.  
  - March 16, 2020 from 5:00 p.m. to 9:00 p.m.  
  - April 27, 2020 from 5:00 p.m. to 9:00 p.m.

21.) **Journeyman Layout Class:** (8-CEH - 464)

This Class will cover the basic functions of the Pipe Trades Pro Calculator with an emphasis on related mathematics and trigonometry. In this class you will discuss methods of common layouts using simple layout tools. Along with the classroom instruction there will also be shop time for hands on application of skills learned. For this class you will need the Pipe Trades Pro Calculator at a cost of $54.00 dollars paid at the start of class. You must attend all 4 classes to receive the credit. This class is open to the first 10 members.

- This class will begin on Wednesday:  
  - October 2, 2019 from 5:00 p.m. to 9:00 p.m.  
  - February 5, 2020 from 5:00 p.m. to 9:00 p.m.

22.) **Crane Signalperson Certification Class:** (8- CEH- 464). (6 Lincoln Plumbing)

This class is an intensive course that includes Signalperson Certification Written & Practical Examinations. The course covers all the pertinent rules specified in OSHA Federal Regulations 29 CFR Part 1926 – Cranes and Derricks in Construction and in ASME Standards. At the conclusion of these sessions, successful candidates will have obtained their NCCCO Signalperson Certification. Cost to members for this class is $75.00 for Journeyman. **This class will be held on Wednesdays & Thursdays from 5:00pm to 9:00 pm and the Written & Practical exam will be on the following Saturday at 7:30 am. Each class must have 10 or more members per class, if we don’t have 10 members that class will be cancelled.**

**WE HAVE TO GIVE NCCCO (4) FOUR WEEKS NOTICE FOR EACH CLASS THAT WE DO.**

<table>
<thead>
<tr>
<th>Sign-up date for this class</th>
<th>Class Starts</th>
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<tbody>
<tr>
<td>September 17, 2019</td>
<td>October 23 &amp; 24 Test on October 26, 7:30 am</td>
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<tr>
<td>October 01, 2019</td>
<td>November 06 &amp; 07 Test on November 09, 7:30 am</td>
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<tr>
<td>January 07, 2020</td>
<td>February 12 &amp; 13 Test on February 15, 7:30 am</td>
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<tr>
<td>February 04, 2020</td>
<td>March 11 &amp; 12 Test on March 14, 7:30 am</td>
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<tr>
<td>March 03, 2020</td>
<td>April 15 &amp; 16 Test on April 18, 7:30 am</td>
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23. **Burner Class:** (6 CEH 464)

This three-night burner class would cover flame detection methods, burner sequence of operation, Fire Eye controls, Honeywell controls and applicable NFPA code requirements. The class time would include lecture and limited hands-on learning. The class will run three consecutive nights and you must be present at all three classes to receive credit.

*Class dates to be determined*

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**CONTINUING EDUCATION CLASSES**

Omaha Training Center
Local 464 Continuing Education
State of Iowa Continuing Education
City of Omaha ACAD Continuing Education

**FOR MEMBERS WHO HAVE AN (IOWA or ACAD) LICENSE YOU MUST BRING YOUR LICENSE TO CLASS TO RECEIVE CREDIT FOR THE CLASS.**

24. **Basic Refrigeration:** (2-CEH – 464) (4-CEH - HVAC-Iowa) (4-CEH - HVAC - ACAD)

This class is to give members the basics of Introduction, Conduction, Convection, Radiation, Sensible & Latent Heat, Specific Heat, Pressure, Atmospheric Pressure / Effects, Alternating Current. This class will meet for (4) hours for one (1) night. This class will be held at the Omaha Training Center and begin on the following days.

This class will begin on Mondays:
- September 09, 2019 from 5:00 pm to 9:00 pm
- November 04, 2019 from 5:00 pm to 9:00 pm
- February 03, 2020 from 5:00 pm to 9:00 pm
- April 06, 2020 from 5:00 pm to 9:00 pm

25. **Intermediate Refrigeration:** (2-CEH–464) (4-CEH–HVAC–Iowa) (4 Lincoln HVAC)
(4-CEH–HVAC–ACAD)

This class is to give members the basics of Refrigeration Equipment & Processes, Refrigeration Process, Pressure & Temperature, The Compressor, The Condenser, The Evaporator, The Metering Device, Refrigeration System & Components. This class will meet for (4) hours for one (1) night. This class will be held at the Omaha Training Center and begin on the following days.

This class will begin on Mondays:
- September 16, 2019 from 5:00 to 9:00 pm
- October 07, 2019 from 5:00 to 9:00 pm
- February 10, 2020 from 5:00 to 9:00 pm
- March 02, 2020 from 5:00 to 9:00 pm

This class is to give members the basics of Refrigerants, Refrigerants Safety & Detection, Refrigerants Boiling Points, Refrigerant Pumping, Characteristics, Popular Refrigerant, Characteristics & Color Codes, Refrigerant Recovery, and Recycle & Reclaim. This Class will meet for (4) hours for one (1) night. This class will be held at the Omaha Training Center and begin on the following days.

This class will begin on Mondays:  
- September 23, 2019 from 5:00 pm to 9:00 pm  
- October 14, 2019 from 5:00 pm to 9:00 pm  
- February 17, 2020 from 5:00 pm to 9:00 pm  
- March 09, 2020 from 5:00 pm to 9:00 pm

27. **Basic Electricity:** (2-CEH – 464) (4-CEH – HVAC – Iowa) (4 Lincoln HVAC) (4-CEH HVAC – ACAD)

This class is to give members the basics of Structure of Electrons, Conductors, Insulators, Electricity From Magnetism, Direct Current, and Alternating Current. This Class will meet for (4) hours for one (1) night. This class will be held at the Omaha Training Center and begin on the following days.

This class will begin on Monday:  
- October 07, 2019 from 5:00 pm to 9:00 pm  
- November 04, 2019 from 5:00 pm to 9:00 pm  
- February 24, 2020 from 5:00 pm to 9:00 pm  
- April 06, 2020 from 5:00 pm to 9:00 pm


This class is to give members the basics of Electrical Units of Measurement, The Electrical Circuit, making Electrical Measurements, Ohm’s Law, Characteristics of Service Circuits, Characteristics of Parallel, Electrical Power, Magnetism, and Inductance. This Class will meet for (4) hours for one (1) night. This class will be held at the Omaha Training Center and begin on the following days.

This class will begin on Mondays:  
- October 14, 2019 from 5:00 pm to 9:00 pm  
- November 11, 2019 from 5:00 pm to 9:00 pm  
- March 02, 2020 from 5:00 pm to 9:00 pm  
- April 13, 2020 from 5:00 pm to 9:00 pm

29. **Intermediate Electricity II:** (2-CEH – 464) (4-CEH – HVAC - Iowa) (4 Lincoln HVAC) (4-CEH HVAC – ACAD)

This class is to give members the basics of Transformers, Capacitance, Impedance, Electrical Measuring Instruments, Sine Waves, Wire Sizes, Circuit Protection Devices, Semi-conductors. This Class will meet for (4) hours for one (1) night. This class will be held at the Omaha Training Center and begin on the following days.

This class will begin on Mondays:  
- October 21, 2019 from 5:00 pm to 9:00 pm  
- November 18, 2019 from 5:00 pm to 9:00 pm  
- March 09, 2020 from 5:00 pm to 9:00 pm  
- April 20, 2020 from 5:00 pm to 9:00 pm
30.)  **Advanced Steam & Condensate Systems I:**  (4 Hydronics Iowa) (2 CEH 464) (4 Lincoln HVAC)

This class is on Steam & Condensate Systems, this class is a four (4) hour class, meeting one (1) night. You must attend all 4 hours to receive your Continuing Education hours. This class will be held at the Omaha Training Center and begin on the following days.

This class will begin on Thursday:  
October 17, 2019 from 5:00 pm to 9:00 pm  
March 19, 2020 from 5:00 pm to 9:00 pm  

31.)  **Advanced Steam & Condensate Systems II:**  (4 Hydronic Iowa) (2 CEH 464) (4 Lincoln HVAC)

This class is on Steam & Condensate Systems, this class is a four (4) hour class, meeting one (1) night. You must attend all 4 hours to receive your Continuing Education hours. This class will be held at the Omaha Training Center and begin on the following days.

This class will begin on Thursday:  
October 24, 2019 from 5:00 pm to 9:00 pm  
March 26, 2020 from 5:00 pm to 9:00 pm  

32.)  **Advanced Steam & Condensate Systems III:**  (4 Hydronic Iowa) (2 CEH 464) (4 Lincoln HVAC)

This class is on Steam & Condensate Systems, this class is a four (4) hour class, meeting one (1) night. You must attend all 4 hours to receive your Continuing Education hours. This class will be held at the Omaha Training Center and begin on the following days.

This class will begin on Thursday:  
October 31, 2019 from 5:00 pm to 9:00 pm  
April 2, 2020 from 5:00 pm to 9:00 pm  

33.)  **Advanced Hydronic Heating & Cooling Systems I:**  (4 Lincoln Plumbing) (2 CEH 464) 
(4 Hydronic Iowa) (4 Lincoln HVAC)

This class is on Hydronic Heating & Cooling Systems, this class is a four (4) hour class, meeting one (1) night. You must attend all 4 hours to receive your Continuing Education hours. This class will be held at the Omaha Training Center and begin on the following days.

This class will begin on Thursday:  
November 07, 2019 from 5:00 pm to 9:00 pm  
April 09, 2020 from 5:00 pm to 9:00 pm  

34.)  **Advanced Hydronic Heating & Cooling Systems II**  (4 Lincoln Plumbing) (4 Hydronic Iowa) 
(2 CEH 464) (4 Lincoln HVAC)

This class is on Hydronic Heating & Cooling Systems, this class is a four (4) hour class, meeting one (1) night. You must attend all 4 hours to receive your Continuing Education hours. This class will be held at the Omaha Training Center and begin on the following days.

This class will begin on Thursday:  
November 14, 2019 from 5:00 pm to 9:00 pm  
April 16, 2020 from 5:00 pm to 9:00 pm
35. **Advanced Hydronic Heating & Cooling Systems III:** (4 Lincoln Plumbing) (2 CEH 464) 
(4 Hydronic Iowa) (4 Lincoln HVAC)

This class is on **Hydronic Heating & Cooling Systems**, this class is a four (4) hour class, meeting one (1) night. You must attend all 4 hours to receive your Continuing Education hours. This class will be held at the Omaha Training Center and begin on the following days.

- This class will begin on Thursday November 21, 2019 from 5:00 pm to 9:00 pm
- April 23, 2020 from 5:00 pm to 9:00 pm

36. **VRV Installation and Commissioning:** (8 CEH 464) (8 Lincoln HVAC)

This class will cover best practices for installation starting with piping, flaring, system pressure test and evacuation, and charging methods. Also covered will be product and technology, basic install, remote control installation, and system commissioning. This class will run 4 hours a night for 4 weeks and you must attend all 16 hours to receive you Continuing Education Hours.

- This class will be on Tuesday October 29, 2019 from 5:00 pm to 8:00 pm

37. **Variable Frequency Drive (VFD) Fundamentals:** (2 CEH 464) (4 Lincoln HVAC)

This class is a 4 hour class and you will be able to identify the components and have a basic troubleshooting knowledge of variable frequency drives.

- This class will be on Thursday October 17, 2019 from 5:00 pm to 9:00 pm

38. **Omaha Limited ACAD Journeyman License Class:**

This class is for members who do not have a city of Omaha Limited ACAD license. This is a 36 hour class, meeting (3) hours a night for (12) weeks. You must attend all 36 hours to receive your continuing education hours. During the class you will submit your application at a cost to you of $25.00. After receiving approval to take the exam, you will submit $100.00 to take the exam and if you receive a 70% or higher you will receive your license. This class will be held at the Omaha Residential Training center. **THIS CLASS WILL BE HELD AT THE “A STREET TRAINING CENTER” AT 13335 A STREET**

- This class will be on Tuesday September 17, 2019 from 5:00 pm to 8:00 pm

**ADDITIONAL CLASSES WILL BE ANNOUNCED!!**

(A POST CARD WILL BE SENT OUT WITH TYPE OF CLASSES AND DATES OF CLASSES)
Continuing Education Classes
Lincoln Training Center

Local 464 Continuing Education
State of Iowa Continuing Education
City of Omaha ACAD Continuing Education

FOR MEMBERS WHO HAVE AN (IOWA or ACAD) LICENSE YOU MUST BRING YOUR LICENSE TO CLASS TO RECEIVE CREDIT FOR THE CLASS.

39.) **Welding Classes:** (8 Hydronic Iowa) (12 CEH 464) (8 Lincoln HVAC)

This class is for all members who want basic skills and for members to sharpen their skills. This class is a 24 hour class, meeting three (3) hours a night for eight (8) weeks. You must attend all 24 hours to receive your Continuing Education hours. There will be two (2) classes, one will start in September and one will start in January. These Welding class will be held at the Lincoln Training Center and begin on the following days.

**THE FIRST (6) MEMBERS**

This class will begin on Wednesday September 11, 2019 from 5:00 p.m. to 8:00 p.m.
This class will begin on Wednesday February 12, 2020 from 5:00 p.m. to 8:00 p.m.

40.) **Basic Refrigeration:** (2-CEH–464) (4-CEH - HVAC-Iowa) (4-CEH - HVAC- ACAD) (4 Lincoln HVAC)

This class is to give members the basics of Introduction, Conduction, Convection, Radiation, Sensible & Latent Heat, Specific Heat, Pressure, Atmospheric pressure / Effects, Alternating Current. This Class will meet for (4) hours for one (1) night. This class will be held at the Lincoln Training Center and begin on the following days.

This class will begin on Mondays:
- September 09, 2019 from 5:00 pm to 9:00 pm
- October 07, 2019 from 5:00 pm to 9:00 pm
- February 10, 2020 from 5:00 pm to 9:00 pm
- March 16, 2020 from 5:00 pm to 9:00 pm
41.) **Intermediate Refrigeration:** (2-CEH – 464) (4-CEH – HVAC – Iowa)   
(4-CEH – HVAC – ACAD) (4 Lincoln HVAC)  
This class is to give members the basics of Refrigeration Equipment & Processes, Refrigeration process, Pressure & Temperature, The Compressor, The Condenser, The Evaporator, The Metering Device, Refrigeration System & Components. This Class will meet for (4) hours for one (1) night. This class will be held at the Lincoln Training Center and begin on the following days.

This class will begin on Mondays:  
- September 16, 2019 from 5:00 to 9:00 pm  
- October 14, 2019 from 5:00 to 9:00 pm  
- February 17, 2020 from 5:00 to 9:00 pm  
- March 23, 2020 from 5:00 to 9:00 pm

42.) **Intermediate Refrigeration II:** (2-CEH – 464) (4-CEH – HVAC Iowa)   
(4-CEH – HVAC – ACAD) (4 Lincoln HVAC)  
This class is to give members the basics of Refrigerants, Refrigerants Safety & Detection, Refrigerants Boiling Points, Refrigerant Pumping, Characteristics, Popular Refrigerant, Characteristics & Color Codes, Refrigerant Recovery, and Recycle & Reclaim. This Class will meet for (4) hours for one (1) night. This class will be held at the Lincoln Training Center and begin on the following days.

This class will begin on Mondays:  
- September 23, 2019 from 5:00 pm to 9:00 pm  
- October 21, 2019 from 5:00 pm to 9:00 pm  
- February 24, 2020 from 5:00 pm to 9:00 pm  
- March 30, 2020 from 5:00 pm to 9:00 pm

43.) **Basic Electricity:** (2-CEH – 464) (4-CEH – HVAC – Iowa) (4-CEHVAC – ACAD)  
(4 Lincoln HVAC)  
This class is to give members the basics of Structure of Electrons, Conductors, and Insulators, Electricity From Magnetism, Direct Current, and Alternating Current. This Class will meet for (4) hours for one (1) night. This class will be held at the Lincoln Training Center and begin on the following day.

This class will begin on Monday:  
- April 6, 2020 from 5:00 pm to 9:00 pm

44.) **Intermediate Electricity:** (2-CEH – 464) (4-CEH – HVAC – Iowa)   
(4-CEHVAC – ACAD) (4 Lincoln HVAC)  
This class is to give members the basics of Electrical Units of Measurement, The Electrical Circuit, making Electrical Measurements, Ohm’s Law, Characteristics of Service Circuits, Characteristics of Parallel, Electrical Power, Magnetism, and Inductance. This Class will meet for (4) hours for one (1) night. This class will be held at the Lincoln Training Center and begin on the following day.

This class will begin on Mondays:  
- April 13, 2020 from 5:00 pm to 9:00 pm

45.) **Intermediate Electricity II:** (2-CEH – 464) (4-CEH – HVAC - Iowa)   
(4-CEHVAC – ACAD) (4 Lincoln HVAC)  
This class is to give members the basics of Transformers, Capacitance, Impedance, and Electrical measuring Instruments, Sine Waves, Wire Sizes, Circuit Protection Devices, and Semi-conductors. This Class will meet for (4) hours for one (1) night. This class will be held at the Lincoln Training Center and begin on the following day.

This class will begin on Mondays:  
- April 20, 2020 from 5:00 pm to 9:00 pm
46.) **8 Hour Lincoln Code Update Class:**  (4 Plumbing & 4 Code Iowa) (4 CEH 464)

This class is for members who want to learn about the code changes. This class is also for members who need (8) hours Continuing Education for their Master License in the city Lincoln, NE. This class will meet for eight (8) hours on one Saturday. You must attend all eight (8) hours of class to receive your Continuing Education hours. You must bring your Uniform Plumbing Code book with you. This class will be held at the Lincoln Training Center and begin on the following day. **Limited to the first 20 members**

This class will be Saturday April 11, 2020 at 7:30 am

47.) **6 Hour Lincoln Code Update Class:**  (4 Plumbing) (3 CEH 464)

This class is for members who want to learn about the code changes. This class is also for members who need (6) hours Continuing Education for their Journeyman or Master License in the city Lincoln, NE. This class will meet for six (6) hours on one Saturday. You must attend all eight (6) hours of class to receive your Continuing Education hours. You must bring your Uniform Plumbing Code book with you. This class will be held at the Lincoln Training Center and begin on the following day. **Limited to the first 20 members**

This class will be Saturday October 12, 2019 at 7:30 am

48.) **2 Hour Lincoln Code Update Class:**  (2 Plumbing & 2 Code Iowa) (1 CEH 464)

This class is for members who want to learn about the code changes. This class will meet for two (2) hours on one Saturday. You must attend all two (2) hours of class to receive your Continuing Education hours. This class will be held at the Lincoln Training Center and begin on the following day. You must bring your Uniform Plumbing Code book with you. **Limited to the first 20 members**

This class will be Saturday April 11, 2020 at 7:30 am

49.) **Backflow License Class:**  (8 Plumbing Iowa) (12 CEH 464)

This class is for members who do not have a Backflow License. This class is a 40 hour class, meeting three (3) hours a night for thirteen (13) weeks. You must attend all 40 hours to receive your Continuing Education hours. Upon the completion of this class, you will take a written test, a hands-on test, at a cost of $144.00 to you. The Backflow License Class will be held at the Lincoln Training Center, and begin on the following day. **In order to have this class, we must have 3 members.**

Wednesday January 8, 2020 from 5:00pm to 9:00pm

50.) **Back-flow Continuing Education Class:**  (5 Plumbing Iowa)  (2 CEH 464)

This class is for members who have a Back-flow License, this class counts for four (5) hours of continuing education for the State of Nebraska or the State of Iowa. You must attend all hours to receive your continuing education hours. You must bring your Back-Flow License with you to class. This class will be held at the Lincoln Training Center and begin on the following days.

This class will begin on Tuesday September 24, 2019 from 5:30 am to 8:30 pm
This class will begin on Tuesday November 12, 2019 from 5:30 am to 8:30 pm **With Guest Speaker**
This class will begin on Saturday April 4, 2020 from 8:00 am to 1:00 pm
51.) **Journeyman Lincoln Plumbing License:** (8 Plumbing & 4 Code Iowa) (12 CEH 464)

This class is for members who do not have a City of Lincoln Plumbing License. This class will meet three (3) hours a night for fourteen (14) weeks. You must attend all 39 hours to receive your Continuing Education hours. Upon the completion of this class, you will take the Lincoln City License test at a cost of $183.00 to you. The Journeyman Lincoln Plumbing License class will begin on the following day.

Total
Station

52.) **Lincoln Master Plumbing Preparation Course:** (12 CEH 464)

This class is for members who do not have a Lincoln Plumbing Masters License. This class will meet 3 hours a night for 14 weeks (42 hours). You must attend all classes to receive your continuing education hours. This class will cover Lincoln amendments, 2009 Uniform Plumbing Code, water pipe and waste vent pipe sizing, drawings flat and isometric with sizing, gas code and gas sizing and a copper project.

Monday January 6, 2020 from 5:00pm to 9:00pm

53.) **Journeyman Lincoln Mechanical License** (12 CEH 464) (8 Lincoln HVAC)

This class is for members who do not have a City of Lincoln Journeyman Mechanical License. This class will meet three (3) hours a night for Ten (10) weeks. You must attend all 30 hours to receive your Continuing Education hours. Upon the completion of this class, you will take the Lincoln City License test at a cost of $50.00 to you. **This class will be limited to the first 10 members.** The Journeyman Lincoln Mechanical License class will begin on the following day at the **Lincoln** Training Center.

**Tuesday October 29, 2019 from 5:00pm to 8:00pm**

The Journeyman Lincoln Mechanical License class will begin on the following day at the **Omaha** Training Center.

**Tuesday September 03, 2019 from 5:00pm to 8:00pm**
**Tuesday February 11, 2020 from 5:00pm to 8:00pm**

**ADDITIONAL CLASSES WILL BE ANNOUNCED!!**

(A POST CARD WILL BE SENT OUT WITH TYPE OF CLASSES AND DATES OF CLASSES)
54.) **VRV Installation and Commissioning:** (8 CEH 464) (8 Lincoln HVAC)

This class will cover best practices for installation starting with piping, flaring, system pressure test and evacuation, and charging methods. Also covered will be product and technology, basic install, remote control installation, and system commissioning. This class will run 4 hours a night for 4 weeks and you must attend all 16 hours to receive your Continuing Education Hours. This class will be held at the Omaha Residential Training center.

This class will be on Tuesday January 21, 2020 from 5:00 pm to 8:00 pm

55.) **Omaha Limited ACAD Journeyman License Class:** (12 CEH 464)

This class is for members who do not have a city of Omaha LIMITED ACAD license. This is a 36 hour class, meeting (3) hours a night for (12) weeks. You must attend all 36 hours to receive your continuing education hours. During the class you will submit your application at a cost to you of $25.00. After receiving approval to take the exam, you will submit $100.00 to take the exam and if you receive a 70% or higher you will receive your license. This class will be held at the Omaha Residential Training center. **THIS CLASS WILL BE HELD AT THE “A STREET TRAINING CENTER” AT 13335 A STREET**

This class will be on Tuesday September 17, 2019 from 5:00 pm to 8:00 pm
Online Continuing Education Classes

56.) **Introduction to Blackboard:**  (1-CEH-464)  (1 Lincoln HVAC)

This is an introduction to Blackboard which is an online learning system used for various classes developed for our membership. In this class you will learn how to log in and navigate the Blackboard system which we will use for our online classes. Only members who have taken the **Introduction to Blackboard** will be eligible to take online Continuing Education classes. Space is limited to the first 20 members and you must be signed up at least one week prior to the start of class for us to obtain your log in and password.

**YOU MUST BE SIGNED UP ONE WEEK PRIOR TO THE START DATE!**

This class will begin on Monday:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>September 09, 2019</td>
<td>5:00pm to 7:00pm</td>
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<tr>
<td>October 07, 2019</td>
<td>5:00pm to 7:00pm</td>
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<tr>
<td>November 04, 2019</td>
<td>5:00pm to 7:00pm</td>
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<tr>
<td>February 03, 2020</td>
<td>5:00pm to 7:00pm</td>
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<tr>
<td>March 02, 2020</td>
<td>5:00pm to 7:00pm</td>
</tr>
<tr>
<td>April 06, 2020</td>
<td>5:00pm to 7:00pm</td>
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57.) **Math Refresher 1:**  (2-CEH-464)  (2 Lincoln HVAC)

This class is only available to members that have already taken the **Introduction to Blackboard** course. The Math Refresher 1 course is for members wanting to sharpen their math skills. You will be working with whole numbers, mixed numbers, fractions, decimals, and decimals of a foot. You will work at your own pace reading PowerPoint presentations, practicing math problems and completing chapter tests.

Call the hall to get signed up for the class. You will be notified by e-mail when the class is available to you along with other instructions. Once you have started the class (logged into) you will have three (3) weeks to complete the course.

58.) **Customer Relations 1:**  (2-CEH-464)  (2 Lincoln HVAC)

This class is an online class that is only available to members that have already completed the **Introduction to Blackboard** course. The Customer Relations Class is for any member who would like to improve their skills in working with customers. This introductory class will cover the evolution of service, the satisfaction model, identifying your customers, and learning how to better communicate with customers. You will work at your own pace becoming more familiar with Blackboard, reading PowerPoint presentations, completing assessments, and posting comments online.

Call the hall to get signed up for the class. You will be notified by e-mail when the class is available to you along with other instructions. Once you have started the class (logged into) you will have three (3) weeks to complete the course.
ADDITIONAL CLASSES WILL BE ANNOUNCED!!

(A POST CARD WILL BE SENT OUT WITH TYPE OF CLASSES AND DATES OF CLASSES)