How Does One Enroll in the Course?

The following are the steps involved in enrolling in the Sound Management of Refrigerants course:

1. Contact Ms. Manal Aabed directly at Manal.Aabed@un.org and let her know you are interested in enrolling in the course.
2. Ms. Manal Aabed will then send your name to the ASHRAE eLearning administrator.
3. ASHRAE will create an account for you.
4. ASHRAE will enroll you into the course.
5. ASHRAE will send you an email with eLearning portal access credentials, URL, and instructions on how to get started on the course.
6. You will need a computer and internet access to complete the course.
7. Once enrolled, the subscription lasts for 12 months, so you have 12 months to complete the course.

Technical Support

If a learner has any difficulties with login or course access, they should contact eLearning@ashrae.org. This support email address is indicated in the eLearning portal, https://elearning.ashrae.org/

UN Environment, represented by the Law Division (OzonAction), and ASHRAE have a Memorandum of Understanding to establish technical cooperation and mutual coordination toward providing professional technical services to the refrigeration and air-conditioning stakeholders (governmental, private, and public). The organizations work to ensure that up-to-date related technical information and standards are properly introduced and promoted. ASHRAE is a worldwide technical society of more than 57,000 individual members.

CONTACT:

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www.unep.org/ozonaction
When Will the Course Be Available?
The course is now available for enrollment.

What is eLearning?
eLearning is a web-based, on-demand learning allowing the learner to study at their own pace and when convenient, from any computer with internet access. It includes audio, video, and interactive exercises that enable the learner to engage with content and retain what they have learned.

What is Sound Management of Refrigerants Course?
UN Environment OzonAction and ASHRAE are developing an interactive web-based eLearning course entitled “Sound Management of Refrigerants.” This course is 6.5 hours of instruction that covers best practices for air conditioning and refrigeration specialists. Topics covered include Environmental Issues and Refrigerant Management, Refrigerant Terminology, Numbering, and Classification; System Lubricants and Applications, Good Service Practice: Refrigerant Recovery, Recycle, and Reclaim (3 R’s), and Refrigerants and Containers Safety Aspects.

This is a companion course to the Refrigerants Literacy course that UN Environment OzonAction and ASHRAE released in Summer 2017. The course is a 4.5 hours of instruction covering the basics of refrigerants used in air conditioning and refrigeration applications. It is target is non-specialists.

Who Should Take the Course?
This course is mainly designed for technicians, engineers, operators, and contractors who service air conditioning and refrigeration equipment and systems.

Supported Languages
The course will be initially only available in English language.

How This Course is Useful to National Ozone Units (NOUs).
The management of refrigerants at the servicing sectors is one of the most critical elements and components to national strategies under countries’ commitments to the Montreal Protocol. Minimizing emissions of refrigerants while servicing is leading to reducing demand of refrigerants, hence assist in phasing out HCFCs and eventually, at a later stage, control and/or phase-down HFCs. The sound management practices are also crucial for promoting lower GWP refrigerants and technologies.

This course will be an invaluable tool for the National Ozone Units (NOUs), in Article 5 countries, in their efforts to train refrigeration servicing technicians in good practices especially when conventional training is not possible for some of the targeted audience. Offering internationally credible training course certified by ASHRAE shall assist NOUs to further promote the good practices to a wider range of stakeholders at local level allowing the desired flexibility to applicants from the refrigeration and air-conditioning sectors.

Course Learning Objectives
1. Examine global environmental issues as they pertain to refrigerants
2. Define pure refrigerants, azeotropic mixtures and zeotropic mixtures
3. Discuss the various refrigerants and the ASHRAE numbering system
4. Describe the differences between refrigerant recovery, recycling, and reclaiming
5. Discuss function and types of lubricants in air conditioning and refrigerant systems
6. Recognize acceptable practices for servicing and installing refrigeration systems
7. Demonstrate safe handling procedures with refrigerants, lubricants, cylinders and equipment
8. Demonstrate the proper use of tools, test equipment and operating procedures while recovering or recycling refrigerants

Course Content
The course consists of 5 modules.

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In addition, the course includes interactivities in the form of knowledge checks to test the learner’s mastery of the content as well as narration to keep the learner engaged. The course navigation is flexible to allow the learner to complete activities in no particular order. Also, if the learner is already familiar with a particular topic, they can skip it. At the end of the course, there is a compulsory examination which, if passed, earns the learner a course completion certificate. The exam allows unlimited attempts.

When Will the Course Be Available?
The course is now available for enrollment.