

Indoor Air Quality and ASHRAE Standard 62.1 (MENA)

3 PDH

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Indoor air quality (IAQ) is one of the most commonly discussed aspect of building indoor environmental quality (IEQ). IAQ has direct effects on our health as well as the perception of an acceptable indoor environment. In the United States and the GCC, ASHRAE *Standard 62.1: Ventilation for Acceptable Indoor Air Quality* is the most commonly referenced standard to quantify acceptable conditions and appropriate HVAC system design. The standard either forms the basis for most mechanical codes or is directly referenced by the codes themselves.

ASHRAE offers a customized training solution for practitioners that outlines the minimum acceptable requirements for buildings IAQ. The training focuses on the basic requirements of ASHRAE Standard 62.1.

This training provides an overview of the requirements of the new standard with emphasis on changes from the previous version and practical application of the ventilation rate procedure.

The training presents sample calculations for code review and for physical operation.

Topics:

- Title, purpose, and scope
- Applicability and definitions
- Air quality requirements
- Building, systems, and equipment requirements
- Air quantity requirements
- ASHRAE Epidemic Task Force recommendations for commercial buildings

Objectives:

- Review requirements of ASHRAE Standard 62.1-2016
- Overview of the ventilation rate procedure.
- Evaluate variables that are important in multizone system design.
- Clarify how different approaches to HVAC design result in different quantities of outside air at the outside air intake.
- Understand the difference in single supply and secondary recirculation systems.
- Review major changes from in the 2019 version.
- Overview of ASHRAE EPIDEMIC TASK FORCE recommendations for commercial buildings

Agenda:

- Background of Standard 62.1
- Standard 62.1 Definitions
- Air Quality
 - o Air Classification and Recirculation
- Building Systems and Equipment Requirement
 - o Ventilation Rate Procedure
- Major updates in the 2019 version of 62.1
- Overview of ASHRAE EPIDEMIC TASK FORCE recommendations for commercial buildings