



SMART BUILDINGS ACADEMY

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HVAC 101 Mini Course Guided Notes



Lesson 2: Air Handling Units -Parts and Pieces

In this lesson, keep note of the following Key Points:

- Air handlers and what they do
- Cooling coils
- Complex air handlers

An air handler is a mechanical device that _____ and _____ air throughout the building. This will consist of what 4 items?

The part where the return air and the outside air mix together is known as the _____ section of the air handler unit.

What is the function of the filter in an air handler unit?



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Air handlers can have a heating coil and a cooling coil. The cooling coil absorbs heat from the mixed air section and these cooling coils can be either _____ or _____.

One special component used to control building static pressure is the _____ which directs flow to the outside of the building.

What are the 2 types of air handlers?

BAS200: Control Sequence Fundamentals Course

BAS200: Control Sequence Fundamentals provides

a comprehensive study of HVAC control sequences. This course combines theory with more than a decade's experience working on some of the world's most complex BAS projects. Students will learn the why behind BAS control strategies and will leave with a solid understanding of "how" systems work.

- Length: 19h16m
- CEUs: 1.9

Course Objectives:

- Master how HVAC systems function and how to control them
- Demonstrate knowledge of BAS controls theory in HVAC systems
- Develop the ability to make design and programming decisions based on system requirements

Some Key Topics:

- Learn what control sequences are and how control sequences are structured.
- Master the step-by-step process of interpreting control sequences.
- Create the foundational system knowledge that allows the student to understand the relationship between space control and upstream systems.
- Discover the different ways of controlling and conditioning the air stream along with the interrelationships between air systems and water systems.
- Learn what hot water systems are, how they are controlled, and how other systems interact with and influence hot water systems.
- Gain an awareness of how and why chilled water systems are used, the methods and processes that control chilled water systems, and the limitations of chilled water systems.
- Learn what the different strategies for pumping and piping are and how these strategies effect the control and efficiency of water based heating and cooling.
- Learn how unitary systems are controlled and how the effect existing building systems.
- Learn what a 2-pipe system is and how to properly control building systems that are supplied by 2-pipe systems.

https://www.smartbuildingsacademy.com/control-sequence-fundamentals

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