

HVAC 101 Mini Course Guided Notes



Lesson 1: Terminal Units - Parts and Pieces

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

- What are terminal units and what do they do?
- Variable Air Volume (VAV) boxes vs Fan Coil Units

Terminal units are airside mechanical devices that are found where? They serve as a connection point between the main HVAC system and the
A VAV box regulates the airflow to a particular zone or room by adjusting the based on the temperature and airflow requirements.



Lesson 1: Terminal Units - Parts and Pieces

VAV boxes can be built with reheats in them. These reheats can
be or
A few many day have been dead allowed as a control beautiful CDM
A fan powered VAV box is used to deliver an extra boost of CFM to building spaces, especially in situations with
Fan coil units are like mini air handlers that provide zone
control, and they have and for both heating
and cooling.

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



BAS200: Control Sequence Fundamentals

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