Mindluster Platform

About the course HVAC ductwork basics

HVAC ductwork course, in this course we will learn about HVAC ductwork, covering the essential principles, techniques, and practices for designing, installing, and maintaining duct systems. The course begins with an introduction to the importance of ductwork in HVAC systems and the various types of duct materials, including metal and flexible ducts. You will gain practical knowledge on duct sizing and layout to achieve optimal airflow and pressure balance. Detailed instructions will guide you through the installation process for different types of ducts, including sealing and insulating techniques to enhance energy efficiency. The course will also cover tools and equipment needed for ductwork installation, as well as safety guidelines to ensure a secure working environment. Maintenance and cleaning procedures will be emphasized to keep duct systems in peak condition and prevent issues such as leaks and blockages. Hands-on exercises and real-world scenarios will provide practical experience, preparing you to handle HVAC ductwork projects confidently. By the end of this course, you will be equipped with the skills and knowledge to design, install, and maintain efficient and reliable duct systems.

Engineering Category's Courses

Course Lesson(18)

Lesson 1 : **How to Make a FILTER RACK in a Plenum or Duct so that the Filter Slides In Smoothly**

Lesson 2 : **Ductwork Restriction AC not Cooling Bad Installation**

Lesson 3 : **HVAC Basic Tools of the Trade Don t Break the Bank**

Lesson 4 :
HVAC Emergency Condensate Pan Bend and Make a Pan that does Not need to be Brazed or Leak Tested

Lesson 5 : **HVAC Ductwork Sheet Metal Tools Basics Uses Demonstration of Each**

Lesson 6 : **How the Indoor Air Filter can PROTECT or BREAK the Furnace and Air Conditioner**

Lesson 7 : **Airflow CFM Measured with a Hot Wire Anemometer**

Lesson 8 : **20 Causes of Low Indoor Airflow on Furnaces and Air Conditioners**

Lesson 9 : **Quickly Make a Sheet Metal Plenum at the Job Site Measure Cut Bend Seal Mount**

Lesson 10 :
AC FREEZING FURNACE OVERHEATING Quickly Find the Airflow Problem on a Furnace or Air Conditioner

Lesson 11 : **Building a Sheet Metal PLENUM and END CAP with Hand Tools**

Lesson 12 : **HVAC Sheet Metal Basics 3 Methods For Hanging Duct**

Lesson 13 : **HVAC Ductwork Basics Trunk Duct Fittings Elbows Names Sizes**

Lesson 14 :
HVAC Apprentice Training Confusing and Misordered Duct Parts Grilles Registers Duct Fittings

Lesson 15 :
HVAC Blower Motor Class PSC Motor Speeds Colors Ohms Current Shorts Air Restrictions

Lesson 16 :
HVAC Blower Motor Operation and Current Draw during Airflow Restriction ECM vs PSC

Lesson 17 :
HVAC System BEFORE and AFTER Measuring CFM Air Flow Loss Sealing Ductwork Measuring Again

Lesson 18 : **Cutting Bending Assembling a Sheet Metal Plenum Box using a Brake and Hand Tools**

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