

HVAC 101: WHAT IN THE WORLD IS HVAC?

What's the Science of HVAC?

At the heart of heating, ventilation, and air conditioning, is **SCIENCE!** HVAC systems come in all shapes and sizes, but their goal is the same: **to make being indoors comfortable and safe.** Furnaces and air conditioners work by manipulating air flow, heat, cold, and chemicals, like refrigerant, to control the indoor temperature, humidity, and air quality.



What Kind of Jobs Are There in HVAC?

Almost anything you can think of! Technicians work in the field, installing systems in homes, and building relationships with the people who live there. Engineers design systems to cool and heat large buildings like schools, businesses, and more. Researchers experiment with new ways to improve the **sustainability and efficiency** of technology and systems.



What Kind of Impact Could I Have on the World Working in HVAC?

Climate change is making extreme weather more common, which makes it more important than ever to provide efficient, sustainable ways to keep people safe inside. HVAC systems play a very important role by responsibly heating and cooling without adding to the fossil fuel demands, while making it comfortable to be indoors.



HVAC stands for
HHEATING
VENTILATION
and **A**AIR **C**ONDITIONING



RESOURCES FOR STUDENTS

TRY THIS EXPERIMENT AT HOME TO LEARN ABOUT FORCE AND AIR FLOW: TWO KEY ELEMENTS OF AN HVAC SYSTEM.



ELECTRICITY IS IMPORTANT WHEN UNDERSTANDING HOW HVAC SYSTEMS DRAW POWER. BUILD A BASIC BOARD!



GREEN HVAC TECHNOLOGY IS MAKING A DIFFERENCE IN CARBON EMISSIONS. HERE'S HOW SOME OF IT WORKS!



HVAC HELPS MAKE AIR INSIDE HEALTHIER THROUGH COOL TECHNOLOGY LIKE UV LIGHTS, TO KILL GERMS AND MOLD!



RESOURCES FOR PARENTS & GUARDIANS

YOUTH APPRENTICESHIP OPPORTUNITIES IN WISCONSIN: AN ALTERNATIVE TO, OR A JUMP-START FOR, A 4-YEAR DEGREE.



WHAT DOES A LIFELONG CAREER IN HVAC LOOK LIKE? EXPLORE THE OPPORTUNITIES AND POTENTIAL CAREER PATHS.



LEARN ABOUT STATISTICS RELATED TO THE AVERAGE SALARIES OF HVAC TECHNICIANS, TRAINING METHODS, AND MORE.



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