



## Air Handling System

### Components/Layout:

- A: Dampers
- B: Filters
- C: Cooling Coil
- D: Heating Coil
- E: Humidifier
- F: Supply Fan
- G: Diffusers
- H: Return Fan



### Air Flow:

Air enters the system from the outside through an air duct and is mixed just before the filters with return air from the space. The mixed air is pulled through a set of filters (B) where impurities like particulates and gaseous pollutants are removed. As the air moves forward, it passes over a set of cooling coils (C), where the air is cooled and depending on the dew point of the passing air, may be dehumidified. The air then passes over a set of heating coils (D) where it is heated to the required temperature if necessary. Following the heating coil the air will pass over a set of humidification tubes (E). If the relative humidity of the passing air is too low these tubes will add moisture to the air as it passes. After the humidifier, the air is pulled into the supply fan (F), which then pushes it through the supply ductwork, through the diffusers (G) and into the space. The return fan (H) pulls air from the space and pulls it through the return ductwork. Finally, the air is either exhausted to the outside or returned to the unit to be mixed with new outside air and start the cycle all over again.

### Refrigerant/Heating Supply:

The cooling coils are fed from a source of cooling, such as chillers, a cooling tower, or DX unit. The refrigerant enters the cooling coils, absorbs heat from the air passing the coils, and returns to its source to desorb the heat that it took in. The heating coils are fed from a heat source such as a boiler or electricity. The heat from these coils is transferred to the air passing over it.

# Hvac Study Guide

**Newland Merrill**



## Hvac Study Guide:

**McGraw-Hill's HVAC Licensing Study Guide** Rex Miller, Mark Miller, 2007-01-11 Get All the Practice Questions and Answers Calculations and Troubleshooting Tips You Need to Ace the major HVAC Licensing Exams HVAC technicians and students alike can turn to the HVAC Licensing Study Guide for everything they need to prepare for and pass the major HVAC licensing exams on the very first try Designed to boost confidence skills and knowledge this unique career building resource contains over 800 practice questions and answers essential calculations and step by step troubleshooting tips for the job site Written by two of the most experienced and successful authors in the HVAC field this on target book presents a wealth of current information on heating boilers ventilation ductwork air conditioning systems and methods refrigeration electrical systems control devices materials and equipment design and codes and standards Filled with over 200 detailed illustrations and handy tip boxes on important code matters and exam questions the HVAC Licensing Study Guide enables readers to Develop skills with material most likely to appear on the NATE ICE RSES and HVAC licensing exams Improve test taking ability with over 800 exam style multiple choice and true false questions and answers Learn about the latest refrigerant usage and regulations Keep up with the most recent codes and standards Acquire the confidence skills and knowledge needed to pass your licensing exam on the first try This HVAC Study Guide Will Help You Master Heating Boilers Ventilation Ductwork Air Conditioning Refrigeration Electrical Control Devices and Much More **HVAC Journeyman Exam Prep** Mike L Porter, 2026-01-23 Are you ready to take the next step in your HVAC career and pass the Journeyman Exam with confidence Many aspiring HVAC technicians struggle with the complexity of heating ventilation air conditioning and refrigeration systems as well as the safety protocols electrical fundamentals and code requirements required to succeed This comprehensive HVAC Journeyman Exam Prep is designed to give you the knowledge skills and practice you need to excel on the exam and in the field Inside this complete guide you ll find detailed explanations of every key topic covered on the HVAC Journeyman Exam including furnaces boilers heat pumps air conditioning systems refrigeration cycles and ductwork design You ll learn essential electrical concepts including voltage current resistance motors transformers relays and thermostats Safety is emphasized throughout with full coverage of OSHA regulations lockout tagout procedures and personal protective equipment ensuring you understand how to work safely and professionally This study guide also dives into load calculations Manual J and Manual D fundamentals SEER AFUE and HSPF ratings as well as proper equipment installation refrigerant charging preventive maintenance and troubleshooting Practical real world examples and detailed explanations prepare you not only for exam questions but also for everyday challenges you ll face as a licensed HVAC technician To reinforce your learning the book includes 200 unique multiple choice practice questions with complete answers and explanations These questions simulate the actual exam environment test your understanding and help you identify areas that need review Whether you re a beginner preparing for your first licensing exam or a professional looking to refresh your skills this study

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test Whether you are new to the HVAC field or looking to refresh your knowledge this book provides a thorough understanding of refrigerant handling safety procedures and regulatory requirements The book begins with an overview of the EPA 608 Certification outlining the importance of this credential for HVAC professionals and detailing the different types of certification including Type I Type II Type III and Universal Each chapter is meticulously crafted to cover specific aspects of the certification process ensuring you are well prepared for every section of the exam Chapter by chapter you will delve into critical topics such as EPA regulations refrigerant types and their environmental impact and safety and handling procedures The book also provides a detailed breakdown of refrigerant recovery recycling and reclamation processes equipping you with the knowledge needed to handle various refrigerants responsibly and in compliance with regulations In addition to theoretical knowledge practical insights are provided through extensive practice questions and answers tailored to each certification type These practice questions are designed to help you assess your understanding and improve your test taking strategies Detailed explanations accompany each answer offering valuable insights into common pitfalls and effective problem solving techniques Special attention is given to exam strategies including time management tips and understanding the question format to ensure you approach the exam with confidence The book also addresses common pitfalls and offers last minute preparation tips to maximize your performance on the exam day This guide is not just a study aid but a comprehensive resource that supports your journey towards becoming a certified HVAC professional With its clear explanations practical advice and extensive practice material it prepares you for the challenges of the EPA 608 Certification exam and helps you build a strong foundation for a successful career in HVAC Perfect for both self study and supplementary use with formal training programs this book is an invaluable tool for achieving certification and advancing your expertise in the HVAC industry

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**Guide to the HVAC/R Certification and Competency Tests** Robert Featherstone,Jesse R. Riojas,2000-07 They may be the only images in existence of American prisoners in Japanese prisoner camps And they sat unpublished for more than fifty years apparently ignored by a U S government that seemed

indifferent to the atrocities the images documented Fort Worth Weekly On the day the Japanese bombed Pearl Harbor the twenty three marines stationed in North China were at the peak of physical condition They were young brave men who were willing to die to defend their country But on that day they were forced to surrender to the Japanese and spent the rest of the war all 1 355 days as POWs They didn t know the statistic that stated a marine was 17 5 times more likely to die in a Japanese prison camp than in battle or that 38 percent of all Americans captured by the Japanese died in labor camps But they were soon to find out on their own The Secret Camera is the true story of how one North China marine struggled for survival From his capture on Pearl Harbor Day through the bombing of Nagasaki Corporal Terence S Kirk spent years as slave labor for the Japanese war machine Watching himself and his fellow marines wither from strapping young men to mere skeletons ravaged by starvation abuse and disease he decided to make a difference by recording the atrocities they all endured With the help of a Japanese interpreter and a handful of other brave marines Kirk managed to build a pinhole camera from scraps of cardboard take a handful of photos and then hide them away until the end of the war These are the only photos ever taken inside a Japanese POW camp A record of courage faith and ingenuity his is a story of heroism unimaginable adversity and the will to survive His photos sat unpublished for more than fifty years ignored by a U S government that seemed indifferent to the atrocities the images documented But Kirk would not let them languish and this book is his legacy

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friends in other states help us out but for some states we had to dig really deep to find the information needed Our audience at the time was very happy with the information we provided At this point we started getting many questions about EPA 608 certification Once you get the education and experience needed to become a technician prospective employers will ask for certification to handle refrigerants When we started writing about how to become certified viewers again requested we write a study guide to help them prepare for the 608 exams The study guides out there were dense and had much more information than was needed to pass the test This inspired us to embark on a journey to write the simplest study guide for the EPA 608 exam which would still cover all the necessary information We hope we have achieved our intended objective The journey to becoming an HVAC technician can be long and arduous We congratulate you on taking this path and wish you the best in cracking the EPA 608 exam

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**TESTING INFORMATION SCOPE OF EXAM**

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Formulas and Calculations Basic Math Final Exams *The Essential HVAC Exam Prep Bible* Newland Merrill, 2024-07-17  
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