Mindluster Platform

About the course Optimizing air conditioner system efficiency

Optimizing air conditioner system efficiency course, in this course we explore the best practices and advanced techniques for optimizing air conditioner system efficiency, essential for reducing energy consumption and enhancing performance. Participants will gain an in-depth understanding of the factors affecting AC efficiency, including proper sizing, regular maintenance, and component upgrades. The course covers key topics such as airflow optimization, refrigerant charge management, and the use of energy-efficient technologies like variable speed compressors and smart thermostats. Through a blend of theoretical knowledge and practical demonstrations, learners will acquire the skills to perform efficiency audits, implement energy-saving strategies, and troubleshoot common efficiency-related issues. Emphasis is placed on environmental sustainability and cost-effective solutions to improve system performance. Whether you're a beginner or an experienced technician, this course equips you with the tools and knowledge to ensure air conditioners operate at peak efficiency, providing reliable and eco-friendly cooling solutions.

Engineering Category's Courses

Course Lesson(148)

Lesson 1 : **Check the Air Conditioner Refrigerant Charge Connect Measure Disconnect Procedure**

Lesson 2 : **Explaination of How to Pump Down an Air Conditioner including Proper Guidelines**

Lesson 3 :
R 22 Refrigerant Charging How to Measure if a System is Overcharged Fast way to Fix Subcooling

Lesson 4 : **Explained Saturation Temperature and Pressure Superheat Subcooling**

Lesson 5 :
Reading Refrigerant Gauges Pressure Temperature Relationship What Refrigerant is in the Tank

Lesson 6 : **Step by Step instructions on how to properly Check Refrigerant Charge**

Lesson 7 :
Refrigerant Charging Checking the R 22 Refrigerant Charge on AC Condensor Subcooling Method

Lesson 8 : **Charging an AC System Low on Refrigerant in Real Time Part 1**

Lesson 9 : **Charging an AC System Low on Refrigerant in Real Time Part 2**

Lesson 10 :
AC Refrigerant Charging Superheat Measurement How to find Target Superheat for Suction Vapor Line

Lesson 11 :
Leaking Refrigerant Replace the Leaky Schrader Valve without Removing the Refrigerant Shown

Lesson 12 : **Charging a Heat Pump at Start up or in the Winter Time What you need to Know**

Lesson 13 :
Charging Refrigerant from your Gauge Hoses back into the System Before Disconnecting Explained

Lesson 14 : **Fixing Refrigerant Gauges Explained and Adjusted**

Lesson 15 :

Charging Refrigerant Step by Step Procedure to Check a R 410a Charge in an Outdoor AC unit

Lesson 16 :
Refrigerant Cycle Explained Heat Transfer Phase Changes High Low Pressure Vapor Liquid

Lesson 17 :
Checking the Charge in Superheat Step by Step Used for Charging Systems without TXV s

Lesson 18 : **ACSERVICETECH Original Channel Trailer**

Lesson 19 :
Charging Refrigerant Checking the Charge Step by Step Procedure when you Don t Know the Rating

Lesson 20 :
R 410A Charging Weighing in Refrigerant Charge through the High Side Red Gauge and Why

Lesson 21 :
R 410A Charging Charging a System that is Very Low on Refrigerant Avoid the Evap Freezing Part 1

Lesson 22 :
R 410A Charging Charging a System that is Very Low on Refrigerant Avoid the Evap Freezing Part 2

Lesson 23 :
R 22 R 410A Refrigerants Checking the Charge Vapor Suction Operating Pressures What is Too Low

Lesson 24 :
R 410A R 22 Refrigerants Checking the Charge Liquid High Operating Pressures What is too High

Lesson 25 :
R 22 R 410A Refrigerants Checking the Charge How to tell if there is a Restriction or Bad TXV

Lesson 26 :
R 22 Refrigerant Charging an Older System with a Capillary Tube Metering Device Confirming Charge

Lesson 27 :
Evaporator Coil How it Works Refrigerant Flow Phase Change Saturation Point Superheat Tips

Lesson 28 :
TXV Function Refrigerant States Superheat across the Evaporator Coil Pressures Applied Tips

Lesson 29 :
Ridiculous HVAC Service Call There were 9 Things Wrong at this One House with Two HVAC Units

Lesson 30 :
Refrigerant Recovery Set up the Gauge Set Hoses Purge Air and How much you can put in the Tank

Lesson 31 :
Refrigerant Charging Why Charge a System with a TXV in Subcooling and why Superheat will Not Work

Lesson 32 :
Refrigerant Charging Why Charge In Superheat for Systems with Pistons Orifices and Capillary Tubes

Lesson 33 : **Charging R 410A Refrigerant Step By Step Process of Adding Refrigerant in Real Time**

Lesson 34 :
Refrigerant Charging What it looks like to have a Bad TXV Compared to just a Low Charge

Lesson 35 :

Refrigerant Charge What Happens to the Pressures Compressor Evap Coil when Blower Motor is Broke

Lesson 36 : **Checking the Refrigerant Charge How to Test a TXV if you suspect its the Problem**

Lesson 37 :
Refrigerant Charging Testing the TXV Bulb Pressures with Bulb in Hot Water Ice Water Normal

Lesson 38 :
Checking Refrigerant Charge How to Properly Attach the Gauges What to look for Before Charging

Lesson 39 :
Charging Freon Checking the Freon R 22 Refrigerant Charge Step By Step and How to tell if its Low

Lesson 40 :
Charging Refrigerant Step by Step Connecting Gauges Checking the R410A Charge How to Disconnect

Lesson 41 :
Refrigerant Charging Two ways to Check Refrigerant Charges Deeper look into the Refrigerant Cycle

Lesson 42 :
Increase the Air Conditioner System Efficiency During the Installation for a Relatively Low Cost

Lesson 43 : **Check the Refrigerant Charge in Superheat STEP BY STEP**

Lesson 44 :
Superheat Charging Chart How to Find Target Superheat and Actual Superheat on an Air Conditioner

Lesson 45 :
Refrigerant Charging Is the Saturated Temp on your Vapor Gauge Actual Temp in Evap Coil Explained

Lesson 46 :
Superheat Charging Method What to do When you Don t have a Psychrometer to Measure Wet Bulb Temp

Lesson 47 :
Refrigerant Charging When Confirming a Charge Should You Always Have 18 21 Degree Temp Diff

Lesson 48 :
Refrigerant Charging How to Check a R 410A Refrigerant Charge Disconnect on Unit with King Valves

Lesson 49 : **Charging R 410A Refrigerant into a Unit that has King Valves**

Lesson 50 : **Fined 37 500 for Venting Refrigerant How to Prevent This**

Lesson 51 : **Refrigerant Charging of a High Velocity Space Pak Unit**

Lesson 52 : **Weighing in the Correct Amount of Refrigerant in a Mitsubishi Mini Split Unit**

Lesson 53 : **HOW I FOUND a REFRIGERANT LEAK in this AC Unit**

Lesson 54 : **Tutorial on How to Use and Read a REFRIGERANT GAUGE SET**

Lesson 55 : **How to Measure Superheat and Subcooling**

Lesson 56 : **How to Use a Refrigerant Gauge Set STEP BY STEP to Read Subcooling for R 410A**

Lesson 57 : **How to Use a Refrigerant Gauge Set STEP BY STEP to Read Superheat for R 410A**

Lesson 58 : **ACSERVICETECH HVAC Channel**

Lesson 59 : **Refrigeration Cycle Tutorial Step by Step Detailed and Concise**

Lesson 60 : **Superheat and Subcooling Explained How to Easily Understand**

Lesson 61 : **Exactly What is Superheat and Subcooling Shown on a Live AC Unit**

Lesson 62 : **Heat Pump Troubleshooting Testing Defrost Board to Force Defrost**

Lesson 63 : **How to Check Superheat and Subcooling**

Lesson 64 : **HVAC Low Refrigerant Subcooling**

Lesson 65 : **HVAC Superheat and Subcooling Explained Understand the Concepts Step by Step**

Lesson 66 :
HVAC Nitrogen Pressure Test Procedure for A C Units the Oil Blowout Vacuum Pump Setup

Lesson 67 : **HVAC Tool Giveaway Contest and Vapor Liquid Refrigerant Port Training**

Lesson 68 : **Thermostatic Expansion Valve TXV VS Piston Fixed Orifice HVAC Metering Devices**

Lesson 69 :
HVAC Basics How to Check R 22 R 410a Subcooling when you don t know the Rating or Refrigerant

Lesson 70 : **R 22 and R 410A Refrigerant Operating Pressures on Air Conditioning Units**

Lesson 71 :
R 22 and R 410a Refrigerant Why the Vapor Gauge Pressure is too Low in Air Conditioning

Lesson 72 : **R 410A and R 22 Refrigerant Low Pressure Low Superheat Problem Explained Freezing**

Lesson 73 : **R 22 and R 410a Low Pressure High Superheat Refrigerant Charging Problem Explained**

Lesson 74 : **Capillary Tube Metering Device and Evaporator Refrigerant Flow Superheat**

Lesson 75 :
Heat Pump Operation Compressor Reversing Valve Metering Device and Refrigerant Flow

Lesson 76 :
Measuring Refrigerant Pressure Temperature in an Air Conditioner Connecting Disconnecting

Lesson 77 :
How to Read the HVAC P T Chart for the Refrigerant Pressure Temperature Relationship

Lesson 78 :
HVAC Service Training Using Refrigerant Gauges to Read Liquid Line Restriction or Low Air Flow

Lesson 79 :
HVAC Refrigerant Pump Down with an R410A Compressor that has a Bad Internal Pressure Relief

Lesson 80 : **Can You Really Check a Refrigerant Charge without Gauges**

Lesson 81 : **Digital Refrigerant Manifold Gauge Set Calibration SMAN460**

Lesson 82 : **How to FIND a REFRIGERANT LEAK in an AC Unit with an Electronic Leak Detector**

Lesson 83 : **HVAC Troubleshooting of Bad Compressor Valves How to Verify**

Lesson 84 : **HVAC Metering Device Types TXV Piston Capillary Tubes**

Lesson 85 : **Easy and Quick Way to Check A C Refrigerant Charge Connect Test Gauges**

Lesson 86 : **How to Tell What Refrigerant is in an AC Unit**

Lesson 87 : **Should You Use Superheat or Subcooling Charge Method Find the Target Explained**

Lesson 88 : **Connect Disconnect Refrigerant Gauges Low Loss Fittings**

Lesson 89 : **R 22 Conversion to R 438A M099 Reading Pressures Adding Refrigerant Disconnect**

Lesson 90 : **How to Find a Refrigerant Leak with an Ultrasonic Leak Detector**

Lesson 91 : **Wrong TXV on R 22 System Bad Readings**

Lesson 92 : **Quick and Easy Refrigerant Charge Check with Digital Gauges SMAN460**

Lesson 93 : **How to Check the Charge in Superheat for Fixed Orifices SMAN460 WB DB**

Lesson 94 : **LOW REFRIGERANT CHARGE on A C Unit How to Verify with Gauges**

Lesson 95 : **Wireless Job Link Probes Test Kit Use to Check a Refrigerant Charge**

Lesson 96 : **HVAC PUMP DOWN Procedure of Air Conditioner STEP by STEP**

Lesson 97 : **Check the Charge with Bubble and Dew Points For a Blend Refrigerant SMAN460**

Lesson 98 : **Charging R 22 into an Air Conditioner that is VERY LOW on Refrigerant**

Lesson 99 : **AC Unit Low on Refrigerant Leak Found**

Lesson 100 : **Checking the Charge of Heat Pump or AC in Winter Low Outdoor Temps**

Lesson 101 : **Refrigeration Cycle of a Heat Pump in Cooling Mode**

Lesson 102 : **Frozen Evap Coil Troubleshooting Using the Refrigerant Charge Measurements**

Lesson 103 : **Checking the Refrigerant Charge When the Target Subcooling is Not Posted**

Lesson 104 :
Recovering Refrigerant with the Compressor While the Unit is Running Adjusting the Charge

Lesson 105 : **HVAC Training Book Refrigerant Charging Service Procedures Ebook Paperback**

Lesson 106 :
Why Measure Both Superheat and Subcooling when Checking the Charge of an AC Unit with a TXV

Lesson 107 :
Can You Check the Refrigerant Charge of an AC Unit by only Measuring Pressures Explained

Lesson 108 :
Total Superheat Method used to Check the Refrigerant Charge of AC s with a Fixed Orifice

Lesson 109 : **HVAC Delta T Explained What Temperature Should it be**

Lesson 110 : **Airflow CFM Measured with a Hot Wire Anemometer**

Lesson 111 : **Introducing our Refrigerant Charging Workbook**

Lesson 112 : **Fast Check for a Very Low Refrigerant Charge on an A C Unit**

Lesson 113 : **Frozen Evap Coil Troubleshooting Liquid Line Restriction Low Airflow Low Charge**

Lesson 114 : **Liquid Line Restriction on AC Unit Explained Found Bad TXV**

Lesson 115 : **Liquid Line Restriction What Happens to High Side Pressure Subcooling**

Lesson 116 : **Vacuuming Weighing Refrigerant Checking the Charge of an HVAC Unit**

Lesson 117 : **How an Air Handler Heat Pump Work**

Lesson 118 : **How an Air Handler Heat Pump Work are Controlled by 24v Thermostat Wires**

Lesson 119 : **Ambient 30 Rule Ambient Temp 25 Charging Methods**

Lesson 120 : **R 410A AC Unit Checked with Superheat 4 Scenarios Low Charge through Overcharged**

Lesson 121 : **Finding Target Superheat to Check the Charge of an R 410A AC Unit**

Lesson 122 : **Low Indoor Airflow Problem While Checking the Charge Troubleshooting**

Lesson 123 : **Charging R 410A Refrigerant into an Air Conditioner Pressures Temps Tips**

Lesson 124 : **Checking the Refrigerant Charge on a Running R 410A Inverter MINI SPLIT Unit**

Lesson 125 :
R 410A AC Unit Checking the Charge with Subcooling Undercharged through Overcharged

Lesson 126 :
Charging an R 410A AC Unit that is Very Low on Refrigerant with the Subcooling Method

Lesson 127 : **Low Outdoor Temp CHECK THE REFRIGERANT CHARGE in the Cold**

Lesson 128 :
HVAC Apprenticeship Class Refrigeration Cycle Superheat Subcooling Saturation Parts AC Heat

Lesson 129 : **Air Conditioner Not Turning On Nothing is Happening 10 Common Problems**

Lesson 130 : **Why an Air Conditioner Coil FREEZES Examples Procedures Troubleshooting**

Lesson 131 :
Troubleshooting Indicators for a Liquid Line Restriction Low Airflow Low Charge Check the Charge

Lesson 132 : **Vacuum Pump Setup on an Air Conditioner Procedure Tools Connections Step by Step**

Lesson 133 :
Charging R 410A into an Air Conditioner that s Low Connect Measure Add Refrigerant Disconnect

Lesson 134 : **HVAC Tools and Methods for Connecting to Refrigerant Ports 10 Tips**

Lesson 135 : **What is SUPERHEAT on an Air Conditioner**

Lesson 136 : **Recovery Machine Hose Setup Step by Step Procedure for Recovering Refrigerant**

Lesson 137 :
HVAC Apprenticeship Class Year 2 MINI SPLIT REFRIGERATION CYCLE in AC Mode with R 32 R 410A Temps

Lesson 138 : **Air Conditioner CONDENSATE Safety Devices**

Lesson 139 : **How Does a Mini Split Provide Heat Refrigeration Cycle Heating Mode Explained**

Lesson 140 :
R410A Refrigerant Charge Level Measurements on Air Conditioners Walkthrough and Practice

Lesson 141 :
R 410A Refrigerant Charge Measurement Examples on Air Conditioners Total Superheat Method Practice

Lesson 142 : **Showing TXV Operation with a Water Stream Thermostatic Expansion Valve Explained**

Lesson 143 : **Troubleshooting With Sat Temps Superheat Subcooling 5 Possible Problems**

Lesson 144 : **A2L Refrigerants R 454B and R 32 Explained Bottles Changes Rules Tools**

Lesson 145 :
Air Conditioning Basics Class Airflow CFM Sensible Latent Heat Dew Point Condensate Delta T

Lesson 146 : **R 32 and R 454B Checking the Refrigerant Charge Scenarios Practice for HVAC Techs**

Lesson 147 : **Explaining Subcooling on an Outdoor AC Unit Quickly hvac**

Lesson 148 : **Charging R 410A Refrigerant Into An Air Conditioner Using Wireless Probes**

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business@mindluster.com