

About the course **Water heater Pilot light troubleshooting**

Water heater Pilot light troubleshooting course, in this course we explore the essential techniques for troubleshooting water heater pilot light issues, equipping participants with the skills necessary to diagnose and resolve common problems. The course begins with an overview of the pilot light system, including key components such as the thermocouple, gas supply, and pilot orifice. Participants will learn to identify symptoms of malfunction, such as the pilot light not igniting or staying lit. Through detailed theoretical insights and hands-on demonstrations, learners will understand how to inspect and clean the pilot assembly, test and replace faulty thermocouples, and ensure proper gas flow. Emphasis is placed on safety protocols to prevent hazards such as gas leaks and ensure the safe operation of water heaters. Additionally, the course covers preventive maintenance tips to keep pilot lights functioning efficiently. Whether you're a beginner or an experienced technician, this course provides the comprehensive knowledge and practical skills needed to maintain and repair water heater pilot lights, ensuring reliable and safe operation of water heating systems.

Engineering Category's Courses

Course Lesson(132)

Lesson 1 : **Testing a Bad Honeywell General Purpose Relay and Taking Apart to See the Burn Marks**

Lesson 2 :
General Purpose Switching Relays Multipurpose Relays Function Wiring Ratings Different Types

Lesson 3 : **Plenum Limit Switches Read the Temperature Ratings Properly Heat Tested**

Lesson 4 : **Wiring an Outdoor Condenser What each of the Wires is For How it Works**

Lesson 5 :
Taco Zone Valve Relay Control Explained Thermostat Wiring Zone Valve Wiring Circulator Control

Lesson 6 : **Pressure Switch Troubleshooting Explained**

Lesson 7 :
Taco Zone Valve Wiring Voltage and water flow Tested and Proved The Water in the top falls Through

Lesson 8 :
Contactors Explained and Tested Wiring Troubleshooting Problems Ratings and Visual Power Up

Lesson 9 :
Troubleshooting the HVAC Delay On Make 5 Minute Adjustable Timer for an A C Compressor

Lesson 10 :
Which HVAC 24v Transformer can you use for Replacement on almost Every Unit Transformers

Lesson 11 : **ACSERVICETECH Original Channel Trailer**

Lesson 12 :
Super Boost Starter Power Packs for Compressors Why use a Relay and Hard Start Capacitor

Lesson 13 : **How to Service the DuoTherm Air Conditioner Under a Trailer**

Lesson 14 : **Bad Refrigerant Compressor Explained and Tested in the Field**

Lesson 15 : **UEI DL389 Multimeter Review Testing each function of the Multimeter**

Lesson 16 : **No A C Service Call No Air Flow Coil Box is Very Wet What to do Step by Step**

Lesson 17 : **How to Ohm out a Compressor**

Lesson 18 : **Step by Step Troubleshooting of a 240v HVAC Blower Motor Single Phase**

Lesson 19 : **How to Test a 30mv THERMOCOUPLE How does it differ from a LOW MASS ONE**

Lesson 20 :
750MV DC THERMOPILE POWERPILE Reading Open Cicuit Voltage and Closed Circuit Voltage

Lesson 21 :
4 Wire and 3 Wire CONDENSER FAN MOTOR WIRING How to Eliminate 2 Run Capacitors

Lesson 22 : **Blower Fan Motor Won t Shut off STEP by STEP Troubleshooting**

Lesson 23 : **Troubleshooting Variable Speed Fan Motors**

Lesson 24 : **Troubleshooting an X13 Blower Motor Step By Step**

Lesson 25 : **How to Troubleshoot a Variable Speed Blower Fan Motor Easily and Quickly**

Lesson 26 :
Testing and Checking the MFD uF rating of HVAC Capacitors Start Capacitors and Run Capacitors

Lesson 27 : **Dual Capacitors How to Identify Test Wire and Read a Dual Capacitor**

Lesson 28 : **Outside Air Conditioner Not Turning On Explained Voltages Contactor Troubleshooting**

Lesson 29 : **Step by Step Troubleshooting of a 240v Blower Fan Motor 3 Speed 1 Phase**

Lesson 30 : **Troubleshooting if a Thermostat is BAD Explained**

Lesson 31 :
Tutorial on HVAC Electrical Disconnects Troubleshooting Fuse Size Non Fused and Fused Application

Lesson 32 : **Condensate Pump Maintenance Troubleshooting and Common Problems**

Lesson 33 : **Why is my Heat and AC Breaker Tripping What is a HACR Breaker Explained**

Lesson 34 :
Understanding and Wiring Heat Pump Thermostats with AUX Em Heat Terminals Colors Functions

Lesson 35 : **Heat Pump Thermostat Troubleshooting**

Lesson 36 : **DEFROST Control Board Wire Terminal Functions Heat Pump Defrost Cycle Explanation**

Lesson 37 : **Thermostat Wiring Replacement Colors Terminal Letters How it Works**

Lesson 38 :
Wiring a Heat Pump Thermostat to the Air Handler and Outdoor Unit Functions Terminals Colors

Lesson 39 : **Wiring a Thermostat Furnace and Heat Pump for Dual Fuel Hybrid Heat**

Lesson 40 : **Reading HVAC Electrical Wiring Diagrams for Troubleshooting**

Lesson 41 : **Gas Furnace Troubleshooting Testing the Hot Surface Ignitor**

Lesson 42 : **Gas Furnace Flame Rod Sensor and Rectification Explained**

Lesson 43 : **Furnace Flame Sensor Testing and Flame Rectification Troubleshooting**

Lesson 44 : **Bypass the HVAC Thermostat for Testing of Furnace and AC Units**

Lesson 45 :

HVAC Blower Motor Not Working Testing Resistance Values Thermal Overload to see What is Bad

Lesson 46 :

HVAC Electric Heat Strips and Components Explained Voltage Path Resistance Readings

Lesson 47 : **HVAC Electrical Troubleshooting Fan Relay**

Lesson 48 :

Thermostat Furnace AC not Working Troubleshooting Bad Tstat Wiring and Blown 24v Fuse

Lesson 49 :

Troubleshooting the Furnace Control Board IFC to Test if its BAD For Heat and AC Diagnosis

Lesson 50 : **Furnace and AC Fan Not Working Troubleshoot the Fan Control**

Lesson 51 : **Thermostat Blank Not Working Simple Diagnosis**

Lesson 52 : **Gas Furnace Spark Ignition Control Troubleshooting**

Lesson 53 : **Troubleshooting the HVAC Ice Cube Relay**

Lesson 54 : **Gas Furnace Spark Ignition Troubleshooting Mercury Flame Sensor**

Lesson 55 : **Furnace Pressure Switch Troubleshooting Definite Testing Procedure**

Lesson 56 : **Gas Furnace Smart Valve Ignitor and Flame Sensor Troubleshooting**

Lesson 57 : **Gas Furnace Spark Ignition Control Troubleshooting Two Rod**

Lesson 58 : **How the Gas Furnace Pressure Switch Works Testing**

Lesson 59 : **Remote Bulb Temperature Control SPDT Thermostat Testing Adjusting Troubleshooting**

Lesson 60 : **HVAC Service Call No A C Electrical Troubleshooting Refrigerant Charge Check Fixed**

Lesson 61 :

HVAC Installation Training Basics for Condensate Safety Switches Low Voltage Wiring Drain Trap

Lesson 62 :

Testing a Gas Furnace Pressure Switch with a Digital Manometer Why I Use This on Heaters

Lesson 63 : **HVAC Electrical Troubleshooting How to Find a Low Voltage Short**

Lesson 64 : **How the Millivolt Gas Valve and 750mv Thermopile Work Troubleshooting**

Lesson 65 : **Gas Furnace Won t Ignite Direct Ignition Gas Valve Troubleshooting**

Lesson 66 : **Gas Furnace Low Pressure Gas Switch Testing and Why You Should Install Them**

Lesson 67 : **Testing With Each Function of the UEI Multimeter UEI DL479 Review**

Lesson 68 : **How to Test a Thermostat with a Multimeter**

Lesson 69 : **How to Test a Heat Pump Thermostat**

Lesson 70 :

Troubleshooting the Fan Limit Control Switch on a Furnace Temperature Settings How it Works

Lesson 71 : **Furnace or AC Blower Motor Not Starting or Working Top 10 Reasons Why**

Lesson 72 : **Boiler Aquastat Relay Troubleshooting and Control Wiring**

Lesson 73 : **Furnace Inducer Motor Troubleshooting Top 8 Problems**

Lesson 74 : **ECM X13 Blower Motor Troubleshooting**

Lesson 75 : **Testing ECM Variable Speed Fan Motor Make Your Own Tester**

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Lesson 77 : [4 Wire 5 Wire Honeywell Zone Valve Wiring Troubleshooting Dismantling](#)

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[Refrigerator Compressor Not Running Test The Start Relay Overload Capacitor PTC Thermistor](#)

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Lesson 99 : [Top 10 Thermostat Related Problems Heat and AC](#)

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Lesson 102 : [Air Handler Control Board Operation and Troubleshooting](#)

Lesson 103 : [Air Handler with Electric Strip Heating Operation and Troubleshooting](#)

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Lesson 106 : [How an Air Handler Heat Pump Work are Controlled by 24v Thermostat Wires](#)

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Lesson 117 :
[Teaching HVAC ELECTRICAL Wiring Components Troubleshooting to Students using a Training Board](#)

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Lesson 122 : [Electrical Troubleshooting Finding 8 Electrical Faults](#)

Lesson 123 :
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[Fast Easy ECM FAN MOTOR Troubleshooting ECM Blower Motors with Spade Terminals](#)

Lesson 125 :
[Troubleshooting all HVAC CIRCUIT BOARDS Methodology and Procedures Used in the Field](#)

Lesson 126 : [Teaching Thermostat Functions to New HVAC Techs and Students](#)

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Lesson 128 :
[Installing Surge Protection at the Electrical Disconnect Box Pass Code Protect the HVAC Unit](#)

Lesson 129 :
[HVAC Multimeter Basics Measuring Electrical Resistance vs Continuity Testing and Tips](#)

Lesson 130 :
[Is There Really 170 Volts Instead of 120V at The Receptacle I Use a Capacitor to Prove This](#)

Lesson 131 : [HVAC CONTACTOR Operation Types Ratings Problems Testing](#)

Lesson 132 :
[LEV EEV Electric Expansion Valve Operation and Troubleshooting HVAC Metering Devices](#)

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