Mindluster Platform

About the course Electrical safety testing fundamentals

Electrical safety testing course, in this course we will learn about Electrical safety testing, focusing on ensuring the safety and compliance of electrical systems and devices. Students will explore the principles and procedures of various safety tests, including insulation resistance, earth continuity, high voltage, and leakage current tests. Key topics include understanding the importance of safety testing in preventing electrical hazards, the use of safety testing equipment, interpreting test results, and adhering to international safety standards. The course will also cover risk assessment, proper documentation, and troubleshooting common issues encountered during safety testing. Practical sessions will provide hands-on experience with real-world testing scenarios, enabling students to confidently perform safety tests in residential, commercial, and industrial environments. By the end of the course, participants will be equipped with the knowledge and skills to ensure electrical installations and devices are safe and compliant with regulatory requirements.

Engineering Category's Courses

Course Lesson(202)

Lesson 1 : **Current Source vs Voltage Source Current Source Voltage Source**

Lesson 2 : **Electronics Projects â€“ Obstacle Avoiding Robot Using Ultrasonic Sensor Arduino**

Lesson 3 :
Series and Parallel Circuits Series VS Parallel Difference between Series and Parallel Circuits

Lesson 4 : **Power Factor Correction Power Factor Correction Methods Power Factor**

Lesson 5 :
Amplitude Modulation vs Frequency Modulation â”, AM vs FM â”, Difference Between AM and FM

Lesson 6 : **Conductors and Insulators â”,â”, Conductors vs Insulators**

Lesson 7 : **Speed Control of DC Motor DC Motor Speed control**

Lesson 8 : **Line Following Robot Arduino Line Following Robot Electronic Project**

Lesson 9 : **Speed Control of Induction Motor AC Motor Speed Control Methods**

Lesson 10 : **Single Phase vs Three Phase Difference Between Single Phase and Three Phase**

Lesson 11 : **Stator and Rotor Difference Between stator and Rotor**

Lesson 12 : **Electric Field vs Magnetic Field Differences between Electric and Magnetic Fields**

Lesson 13 : **Encoder What is an Encoder How does an Encoder Work**

Lesson 14 : **Types of Bearings Different Types of Bearings**

Lesson 15 : **Cell vs Battery Bifference between Cell and Battery Cell vs Battery**

Lesson 16 : **Types of Gear Different Types of Gear**

Lesson 17 : **Motor and Pump Difference between Pump and Motor Motor vs Pump**

Lesson 18 : **Neautral Wire vs Earth Wire Difference Between Neutral Wire and Earth Wire**

Lesson 19 : **What is MCB Advantages and Disadvantages of MCB**

Lesson 20 : **Eddy Current Eddy Current Definition**

Lesson 21 : **Eddy Current Loss vs Hysteresis Loss Hysteresis Loss and Eddy Current Loss**

Lesson 22 : **Thermocouple vs Thermistor Difference between Thermocouple and Thermistor**

Lesson 23 : **Thermocouple Types of Thermocouple Thermocouple Types**

Lesson 24 : **GSM vs CDMA Difference between CDMA and GSM**

Lesson 25 : **Armature Winding and Field Winding Difference between Armature and Field**

Lesson 26 : **IPS vs UPS Difference between IPS and UPS**

Lesson 27 : **What is DCS Distributed Control System DCS**

Lesson 28 : **Electrical Joints Types of Electrical Joints Proper Joint of Electric Wire**

Lesson 29 :
Synchronous Motor vs Induction Motor Difference Between Induction Motor and Synchronous Motor

Lesson 30 : **Sensor and Transducer Difference between Transducer and Sensor**

Lesson 31 :
Electrical Measuring Instruments Testing Equipment Electrical Types of Electrical Meters

Lesson 32 : **Types of Sensors Sensors Types Different Types of Sensors**

Lesson 33 : **Transducer Types of Transducer Transducer Types**

Lesson 34 : **Types of Temperature Sensors Temperature Sensor Types**

Lesson 35 : **Screw vs Bolt Difference Between Bolt and Screw Bolt and Screw**

Lesson 36 : **Screwdriver Types Types of Screw Heads**

Lesson 37 : **Types of Bolts Types of Bolt Heads**

Lesson 38 : **Bearing Types Types of Bearings Classification of Bearings**

Lesson 39 : **Types of Nuts Hardware Different Types of Nuts**

Lesson 40 : **Washers Hardware Washer Types Types of washers**

Lesson 41 : **How To Connect IPS With Two Battery luminous nxg 1400 solar inverter**

Lesson 42 : **Transformer Types Types of Transformer Electrical Transformers Types**

Lesson 43 : **Pumps Types Types of Pump Classification of Pumps Different Types of Pump**

Lesson 44 : **How Transformers work explained animation**

Lesson 45 : **Circuit Breaker Types of Circuit Breaker Different Types of Circuit Breakers**

Lesson 46 : **Circuit Breaker How does a Circuit Breaker Work**

Lesson 47 : **Gear Types Types of Gear Different Types of Gear**

Lesson 48 : **Types of House Wiring Types of Electrical Wiring Electrical Wiring**

Lesson 49 : **Types of Thermometer Uses of Thermometer Thermometer Types**

Lesson 50 : **Switch types Types of Switches Types of Electrical Switches**

Lesson 51 : **Types of Electrical Switches Switch types Types of Switches**

Lesson 52 : **MCB vs MCCB | Difference between MCB and MCCB**

Lesson 53 : **Types of AC Motor Different Types of Motors Electric Motor Types**

Lesson 54 : **Types of DC Motors Classification of DC Motors Motor Types**

Lesson 55 : **Types of Special Motor Classification of Electric Motor Types of electrical Motor**

Lesson 56 : **DC Motor vs AC Motor Difference between DC Motor and AC Motor**

Lesson 57 : **DC Motor vs Universal Motor Difference between DC Motor and Universal Motor**

Lesson 58 : **DC Motor vs Stepper Motor Difference between DC Motor and Stepper Motor**

Lesson 59 : **Servo Motor vs Stepper Motor Â¦ Difference between Stepper Motor and Servo MotorÂ¦**

Lesson 60 : **Neutral vs Ground Difference between Earthing and Neutral**

Lesson 61 : **Why do You Get Electric Shocked Why Earthing is Required Electrical Earthing**

Lesson 62 : **Types of Earthing Different Types of Earthing System Methods of Earthing**

Lesson 63 : **Earthing Systems vs Electrical Grounding Difference between Earthing and Grounding**

Lesson 64 :
AC Servo Motor vs DC Servo Motor Difference between AC Servo Motor and DC Servo Motor

Lesson 65 : **PLC vs Microcontroller Difference between PLC and Microcontroller**

Lesson 66 : **PLC vs SCADA Difference between PLC and SCADA**

Lesson 67 : **ELCB vs MCB Difference between ELCB and MCB**

Lesson 68 : **ELCB vs RCCB Difference Between ELCB and RCCB**

Lesson 69 : **Fuse vs MCB Â¦ Difference Between Fuse and MCBÂ¦ Compare Fuse and MCB Â¦**

Lesson 70 : **Transistor Construction and Working Principle of Transistor**

Lesson 71 :
DC Current vs AC Current Â¦ Difference between Alternating Current and Direct CurrentÂ¦

Lesson 72 :
Wire vs cable Â¦ Difference between Wire and Cable Â¦ Drive by Wire vs Drive by Cable Â¦

Lesson 73 : **CT vs PT Difference between Current Transformer and Potential Transformer**

Lesson 74 : **Contactor vs Relay Difference between Relay and Contactor**

Lesson 75 : **Converter vs Inverter Difference between Converter and Inverter**

Lesson 76 : **Motor Starter Motor Controller Motor Starter Types**

Lesson 77 : **Types of Rotors Different types of Rotors and their characteristics**

Lesson 78 : **Types of Water Valves Plumbing Valve Types**

Lesson 79 : **Electrical Safety Electrical Safety Testing**

Lesson 80 : **Arduino vs Raspberry Pi Difference between Arduino and Raspberry Pi**

Lesson 81 : **Isolator vs Circuit Breaker Difference Between Isolator and Circuit Breaker**

Lesson 82 :
Capacitor vs Inductor Capacitor and Inductor Difference Between Capacitor and Inductor

Lesson 83 : **Modbus How Does Modbus work Modbus Tutorial**

Lesson 84 : **Insulator Types of Insulators**

Lesson 85 : **KVA vs KW KVA and KW Difference between KVA and KW**

Lesson 86 : **DC Motor vs DC Generator Difference between DC Motor and DC Generator**

Lesson 87 : **Difference between CPU MPU MCU SOC and MCM**

Lesson 88 : **Types of Relay Different Types of Relay Classification of Relays**

Lesson 89 : **Relay vs Circuit Breaker Difference between Relay and Circuit Breaker**

Lesson 90 : **Relay vs Circuit Breaker Difference between Relay and Circuit Breaker**

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Lesson 92 : **Relay vs Transistor Difference between Relay and Transistor**

Lesson 93 : **Relay vs Transistor Difference between Relay and Transistor**

Lesson 94 : **Relay vs Transistor Difference between Relay and Transistor**

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Lesson 97 : **Resistor What is a Resistor Function of Resistor**

Lesson 98 : **Resistor â”, Resistor color Codeâ”,**

Lesson 99 : **Electromagnetic Relay How a Relay Works Electromagnetic Relay Switch**

Lesson 100 : **Different Types of Current Transformer Classification of Current Transformer**

Lesson 101 : **Types of Capacitor Different Types of capacitor Capacitor Types**

Lesson 102 : **Types of Battery Different Types of Battery Classification of Battery**

Lesson 103 : **Types of Converters Different Types of Converters**

Lesson 104 : **Type of Fuse Different Types of Fuse How Many Types of Fuse Various Types of Fuse**

Lesson 105 : **Types of Circuit Breaker Classification of Circuit Breaker Circuit Breaker**

Lesson 106 : **Types of Faults in Power System Fault In Electrical Transmission Line**

Lesson 107 : **Transformer Testing Transformer Testing and their Procedure**

Lesson 108 : **Short circuit or Full Load Test of Transformer Transformer Testing**

Lesson 109 : **Open circuit or No Load Test of Transformer Transformer Testing**

Lesson 110 : **Types of Power Plant Classification of Power Plants**

Lesson 111 : **Air Circuit Breaker Principle of Air Circuit Breaker**

Lesson 112 : **Battery vs Capacitor Difference between Battery and Capacitor**

Lesson 113 : **How Capacitors Work How does a capacitor work Capacitors Explained**

Lesson 114 : **Power Transformer vs Distribution Transformer Electrical Transformer**

Lesson 115 : **Construction of Induction Motor Three Phase Induction Motor Construction**

Lesson 116 : **Oil Circuit Breaker Construction of Oil Circuit Breaker Function of Oil Circuit Breaker**

Lesson 117 : **How to wire a light switch One Light One Switch Connection House Wiring**

Lesson 118 :
Regulator Connection With Ceiling Fan Fan Regulator Connection Electrical House Wiring

Lesson 119 :
2 pin 3 pin socket connection in switchboard House Wiring Switch Board Connection Diagram

Lesson 120 :
Electrical Switch Board Wiring Diagram Electrical Switch Board Connection House Wiring

Lesson 121 :
Complete House Wiring with Inverter Connection Single Phase Full House Wiring Diagram

Lesson 122 : **Single Phase Motor Wiring Single Phase Motor Connection with Switch House Wiring**

Lesson 123 : **Solar Panel connection with Inverter for Home Solar Inverter Connection Diagram**

Lesson 124 : **DOL Starter connection Single Phase Motor Connection with Magnetic Contactor**

Lesson 125 : **Complete 3 Phase House Wiring 3 Phase Distribution DB Box Wiring Diagram**

Lesson 126 :
Two way and Intermediate switch Connection Intermediate Switch Wiring Diagram Staircase Wiring

Lesson 127 : **Float Switch Wiring Diagram with Manual On Off Switch**

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Lesson 129 :
Submersible Starter Connection with Magnetic Contactor Submersible Water pump Starter wiring

Lesson 130 : **Voltmeter Connection With Selector switch Voltmeter Connection Diagram Voltmeter**

Lesson 131 : **Ammeter Connection 3 Phase Ammeter Connection Selector Switch Ampere Meter**

Lesson 132 :
Three Phase Main Distribution Board Wiring 3 Phase Distribution MDB Box Wiring Diagram

Lesson 133 : **8 Pin Timer Relay Wiring Diagram Basic Timer Connection And Function**

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Lesson 135 : **Star Delta Starter Complete Wiring Connection Star Delta Starter Control Circuit**

Lesson 136 :
Automatic Changeover Switch Connection Automatic Transfer Switch ATS With Circuit Diagram

Lesson 137 :
Reverse Forward DOL Starter Power and control Wiring Reverse Forward Starter Control Wiring

Lesson 138 : **PFI Panel Wiring Diagram Power Factor Improvement PFI Panel Circuit Diagram**

Lesson 139 : **Relay Wiring Diagram Relay Connection Relay Working Principle**

Lesson 140 : **Star Delta With Reverse Forward Motor Starter Wiring Star Delta Starter**

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Lesson 142 : **Float Switch Wiring Diagram for Single Phase Water Pump Float Switch Connection**

Lesson 143 :
Complete Three Phase House Wiring With Changeover Switch Three Phase House Wiring

Lesson 144 :
Temperature Controller Connection with RTD à¥¤ Temperature Controller Install Diagram à¥¤

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Submersible water pump with float switch and auto on off Submersible pump control box wiring

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Lesson 151 : **Electric Manual Changeover Switch Connection Changeover Switch**

Lesson 152 : **Auto Reverse Forward Motor Starter Control Wiring Reverse Forward Motor Control**

Lesson 153 : **Manual Changeover Switch Connection Changeover Switch Connection**

Lesson 154 : **Fluorescent Tube Light Wiring Connection Using Electronic Choke**

Lesson 155 : **DP Switch Double Pole Switch Wiring DP Switch Connection Diagram**

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Lesson 157 : **RCBO Connection in SDB Board RCBO Connection Electrical House Wiring**

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Lesson 160 : **Industrial Automatic Changeover Switch ATS Changeover Switch**

Lesson 161 : **MPCB Motor Protection Circuit Breaker MPCB Connection With On Off Indicator**

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How do I wire a ceiling fan with a 2 way switch Two way switch fan regulator connection diagram

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ATS Connection For Multi Story Residential Building Single Phase ATS Wiring Diagram ChangeOver

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Lesson 176 : **On Delay Timer Connection Diagram**

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Lesson 180 : **Pliers Types Different Types of Pliers**

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Lesson 184 :
Exhaust Fan Direction Change Exhaust Fan Reverse Connection How to Change Exhaust Fan Direction

Lesson 185 : **Two motor automatic control 0 12 Hour Timer Setting**

Lesson 186 : **Air Compressor Automatically ON OFF Connection With Pressure Switch**

Lesson 187 : **Submersible Motor Control Box Connection à¥¤ Motor Control Box**

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Lesson 189 : **Mercury Vapour Lamp Connection HPMV Lamp Connection Mercury Lamp Connection**

Lesson 190 : **Table Fan Wiring Connection Diagram**

Lesson 191 : **Water Heater or Geyser Wiring Connection à¥¤**

Lesson 192 : **AC DC Light control automatic in 8 pin relay Relay Connection**

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Lesson 194 : **Digital Multimeter Connection on DB Board**

Lesson 195 : **Digital Voltmeter Connection With Selector Switch**

Lesson 196 : **HT Switchgear Panel Wiring Inside Wiring For a 11KV HT Panel in a Substation**

Lesson 197 : **11KV HT Metering Connection With CT PT**

Lesson 198 : **Emergency Stop Switch Connection with DOL Starter**

Lesson 199 : **Three Phase Distribution Board Connection With Multimeter**

Lesson 200 : **11KV High Voltage HT Metering Connection With CT PT**

Lesson 201 : **Pumps Vs Compressors Difference Between Pump and Compressor**

Lesson 202 : **Types of air conditioners Different Types of Air Conditioners**

Related courses

Cabinetry Basics

MFT and MFT related accessories

hinges workshops

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