Mindluster Platform

About the course Industrial electrical power cable

Industrial electrical power cable course, in this course we will learn about Industrial Electrical Power Cable Construction, offering a comprehensive overview of the design, materials, and manufacturing processes involved in creating high-quality power cables for industrial applications. The course will start with an introduction to the basic principles of power cable construction, covering different types of cables used in various industrial settings, including low, medium, and high voltage cables. We will delve into the specifics of conductor materials, such as copper and aluminum, and their properties that affect performance and efficiency. The course will also cover insulation materials and their roles in ensuring safety and durability, as well as sheathing and armoring techniques used to protect cables from physical and environmental damage. You will learn about shielding methods to minimize electromagnetic interference and ensure reliable power transmission. Practical lessons will include detailed explanations of the manufacturing processes, quality control measures, and testing procedures to ensure cables meet industry standards and regulations. The course will also explore specialized cables, such as fire-resistant and flame-retardant cables, and their applications in industrial environments.

Engineering Category's Courses

Course Lesson(28)

Lesson 1 : **How to become a manager from Student Basics about the Industry**

Lesson 2 : **What is voltage current frequency power explained in Tamil with story**

Lesson 3 : **Industrial Power distribution system HT LT MDB PCC PDB RPDB LDB Part 1**

Lesson 4 : **Industrial Power distribution system HT LT MDB PCC PDB RPDB LDB Part 2**

Lesson 5 :
Industrial Electrical Power cable Construction Identification Selection and Troubleshooting

Lesson 6 :
Industrial Instrumentation Instrument cable Types Identification Selection Troubleshooting

Lesson 7 :
How to identify the fault in cable by using multimeter Continuity test in different combination

Lesson 8 :
How to do Cable termination in Electrical panel and troubleshooting Cable glanding and termination

Lesson 9 : **Communication cable types Ethernet LAN Profinet Profibus Device net Controlnet**

Lesson 10 : **Industrial High voltage cable ACSR AAAC AAC Why we are using this**

Lesson 11 :
What is Megger and How to Check Electrical Cable by using Megger LT Cable joint and Testing

Lesson 12 : **What is Hipot test in Electrical cable testing Difference between Megger and Hipot test**

Lesson 13 :
Electrical Protection devices in Switchyard Isolator Surge arrestor CT SF6 Breaker Transformer

Lesson 14 :
110KV Electrical Substation panel accessories Protection Relay Breakers Power transformer Switch

Lesson 15 : **11Kv 415V Electrical Substation Protection and control System VCB ACB relay Switches**

Lesson 16 :
Protection devices in machine Emergency Push button Light Curtain Pull card switch Safety Mat

Lesson 17 : **Vacuum circuit breaker maintenance VCB service internships training**

Lesson 18 : **ACB Service Air circuit breaker maintenance Protection system in electrical**

Lesson 19 : **How to read SLD diagram Single line diagram in electrical**

Lesson 20 : **What is industry and How to choose Department and what is Roles and responsibilities**

Lesson 21 :
What is machine in Industry and how to understand easily Sensor Hydraulic Pneumatic System

Lesson 22 : **What is control transformer in Electrical Panel and how to use Control Voltage**

Lesson 23 :
What is SMPS in Electrical Panel and How to use Selection Connection and troubleshooting

Lesson 24 : **What is relay in electrical panel How to select Relay How to find the faults in Relay**

Lesson 25 : **What is relay How does a Relay works NO NC Contact**

Lesson 26 : **What is Contactor How the contactor works AC 1 AC 3**

Lesson 27 :
What is Contactor How to find the fault in Contactor What maintenance required for contactors

Lesson 28 : **Switchgear Fuse and types**

Related courses

Cabinetry Basics

MFT and MFT related accessories

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CNC Computer numerical control

Jointing Systems

Cabinet tips

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