

Maintenance & Reliability Bundles

1. Pipefitting Skills(DSSBN03)

This bundle of courses is specially designed to teach you all the aspects of Pipefitting in very interactive way. This training covers different types of pipes, joints, tubes, hoses, accessories and corresponding measurements and drawings.

Courses included are:

- Pipefitting: Introduction to Pipefitting
- Pipefitting: Piping Systems and Standards
- Pipefitting: Pipe Fittings & Joints
- Pipefitting: Measuring Pipe and Drawings
- Pipefitting: Offsets
- Pipefitting: Manual and Electric Threaded Pipe
- Pipefitting: Flanged Pipe
- Pipefitting: Plastic Pipe
- Pipefitting: Accessories and Specialty Equipment
- Pipefitting: Tubing
- Pipefitting: Hoses

2. PLC and HART(DSSBN04)

This bundle of courses is specially designed to teach you all the aspects of Programmable Logic Controllers (PLC) and HART Communication Protocol in very interactive way. This training covers details of basic and advanced programming and troubleshooting of PLCs. For HART protocol, it covers concept, application, testing, calibration and fieldbus.

Courses included are:

- Programmable Logic Controllers: Fundamentals
- Programmable Logic Controllers: Programming
- Programmable Logic Controllers: Inputs and Outputs
- Programmable Logic Controllers: Troubleshooting
- Programmable Logic Controllers: Communications and Advanced Programming
- Understanding HART Protocol
- Applications of HART Smart Field Device
- Configuring, Calibrating & Testing HART Smart Field Devices
- FOUNDATION Fieldbus

3. Vibration Analysis(DSSBN05)

This bundle of courses is specially designed to teach you all the aspects of Vibration Analysis in very interactive way. The aspect of Vibration Analysis on AC induction motors is covered up to advanced level. This training covers details of basics, data collection, data processing and data analysis of Vibration Analysis on machines. The training can be applied to various machines in industrial set up.

Courses included are:

- Advanced Vibration Analysis: AC Induction Motors Part 1
- Advanced Vibration Analysis: AC Induction Motors Part 2
- Vibration Analysis: Predictive Maintenance and Machine Vibration
- Vibration Analysis: Machine Vibration Basic Theory
- Vibration Analysis: Preparing for Data Collection
- Vibration Analysis: The Data Processing System
- Vibration Analysis: Data Collection
- Vibration Analysis: Data Analysis

4. AC/DC Electronics(DSSBN06)

This bundle of courses is specially designed to teach you all the aspects of AC and DC Electronics in very interactive way. This training covers current, voltage, resistance, Ohm's Law, magnetism, AC/DC Current, capacitors, inductors, transformers and tuned circuits.

Courses included are:

- AC/DC Electronics: Current
- AC/DC Electronics: Voltage
- AC/DC Electronics: Resistance
- AC/DC Electronics: Ohm's Law
- AC/DC Electronics: Magnetism
- AC/DC Electronics: Electrical Measurements
- AC/DC Electronics: DC Circuits
- AC/DC Electronics: Inductance & Capacitance
- AC/DC Electronics: Alternating Current
- AC/DC Electronics: AC Measurements
- AC/DC Electronics: Capacitive Circuits
- AC/DC Electronics: Inductive Circuits
- AC/DC Electronics: Transformers
- AC/DC Electronics: Tuned Circuits

5. Operator Inspection(DSSBN07)

This bundle of courses is specially designed to teach you diverse aspects of Operator Inspection in industrial set up in very interactive way. This training covers details of inspection on pneumatic, vacuum, compression, structure, electrical, clutch, brake, motor, and lubrication systems.

Courses included are:

- Operator Inspection: Pneumatic System Inspection
- Operator Inspection: Vacuum System Inspection
- Operator Inspection: Air Compression System Inspection
- Operator Inspection: Fastener & Equipment Structure Inspection
- Operator Inspection: Electrical Equipment & Control System Inspection
- Operator Inspection: Motor & Drive System Inspection
- Operator Inspection: Belt Drive, Chain Drive & Gear Box Inspection
- Operator Inspection: Clutch & Brake Inspection
- Operator Inspection: Lubrication System Inspection

6. Hydraulics(DSSBN08)

This bundle of courses is specially designed to teach you all the aspects of Hydraulics system in very interactive way. This training covers details Hydraulic circuit, Actuators, Pumps, Control valve, and Hydraulic fluid. These courses also discuss maintenance and troubleshooting of these systems.

Courses included are:

- Hydraulics: Harnessing Hydraulic Power
- Hydraulics: The Hydraulic Circuit
- Hydraulics: Pumps and Actuators
- Hydraulics: Control Valves
- Hydraulics: Hydraulic Fluid
- Hydraulics: System Safety and Maintenance
- Hydraulics: Hydraulic System Troubleshooting
- Industrial Hydraulics: Types and Concepts
- Function and Operating Principles
- Industrial Hydraulics: Maintenance & Troubleshooting
- Hydraulic Power Systems and Troubleshooting: Identification and Operation
- Hydraulics Power Systems & Troubleshooting: Troubleshooting Techniques

7. Basic Machine Technology(DSSBN09)

This bundle of courses is specially designed to teach you all the aspects of Basic Machine Technology in very interactive way. This training covers details of technologies such as hand tools, measuring tools, milling machine, vernier callipers, pedestal grinder and drill presses. The safety procedures associated with these technologies will also be discussed.

Courses included are:

- Basic Machine Technology: Safety Procedures & Guidelines
- Basic Machine Technology: Hand Tools & Their Uses
- Basic Machine Technology: The Use of Measuring Tools
- Basic Machine Technology: The Vertical Milling Machine
- Basic Machine Technology: The Vernier Calliper & Vernier Protractor
- Basic Machine Technology: The Pedestal Grinder
- Basic Machine Technology: Sharpening Drill Bits by Hand & Machine
- Basic Machine Technology: Drill Presses - Sensitive & Radial Arm
- Basic Machine Technology: Drill Press Operations
- Basic Machine Technology: Vertical Band Saws- Parts, Accessories & Operation

8. Industrial Electricity(DSSBN10)

This bundle of courses is specially designed to teach you all the aspects of Industrial Electricity in very interactive way. This training covers details of principles, AC, conductors, wiring, installation and generators.

Courses included are:

- Industrial Electricity: Basic Principles
- Industrial Electricity: Alternating Current
- Industrial Electricity: Conductors
- Industrial Electricity: Wiring
- Industrial Electricity: Installation, Distribution and Lighting
- Industrial Electricity: Generators and Motors
- Industrial Electricity: AC Motor Control and Current Measurement

9. Bearings/Clutches/Seals(DSSBN11)

This bundle of courses is specially designed to teach you all the aspects of Bearings, Clutches & Brakes, and Seals in very interactive way. This training covers details of working principles, maintenance, inspection, troubleshooting and applications of these technologies.

Courses included are:

- Industrial Bearings: Application and Technology
- Industrial Bearings: Maintenance and Installation
- Industrial Bearings: Troubleshooting
- Clutches & Brakes: Types, Principles and Functions
- Clutches and Brakes: Troubleshooting
- Industrial Seals: Types, Materials & Properties
- Industrial Seals: Gaskets & Packings - Inspection & Installation
- Industrial Seals: Mechanical Face Seals - Troubleshooting & Installation

10. Introductory Operator Training(DSSBN12)

This bundle of courses is specially designed to teach you the Introductory Aspects of Operator Training in industry set up in very interactive way. This training covers details on hand tools, fluids, involved chemistry and physical force. Different modes of operations are also covered from scenario perspective – normal, abnormal and start up.

Courses included are:

- Introductory Operator Training: Properties of Fluids
- Introductory Operator Training: Physical Force
- Introductory Operator Training: General Chemistry
- Introductory Operator Training: Organic Chemistry
- Introductory Operator Training: Normal Operation
- Introductory Operator Training: Start-Up Operations
- Introductory Operator Training: Abnormal Operations
- Introductory Operator Training: Hand Tools

11. Energy Management(DSSBN13)

This bundle of courses is specially designed to teach you all the aspects of Energy Management in an industrial set up in very interactive way. This training covers energy management principles and take real examples from boilers, emission control, steam turbines, condensers, pumping systems, cooling towers, raw water treatment, compressed air, refrigeration and HVAC. Best practices from industry globally will also be discussed as part of curriculum.

Courses included are:

- Energy Management: Energy Smart
- Energy Management: Best Practices
- Energy Management: Instrumentation and Controls
- Energy Management: Theory of Steam Generation
- Energy Management: Fuels and the Combustion Process
- Energy Management: Boilers and Auxiliaries
- Energy Management: Emissions Control and Ash Handling
- Energy Management: Steam Distribution
- Energy Management: Steam Turbines and Condensers
- Energy Management: Pumping Systems
- Energy Management: Cooling Towers
- Energy Management: Raw Water Treatment
- Energy Management: Compressed Air
- Energy Management: Refrigeration
- Energy Management: HVAC and Indoor Air Quality

12. Mechanical Electrical Control Systems(DSSBN14)

This bundle of courses is specially designed to teach you all the aspects of Mechanical Electrical Control Systems in very interactive way. This training covers details of control schematics, creating these schematics, electronic controls and their troubleshooting.

Courses included are:

- Mechanical Electrical Control Systems: Introduction to Control Schematics
- Mechanical Electrical Control Systems: Creating Schematics
- Mechanical Electrical Control Systems: Electrical Lockout
- Mechanical Electrical Control Systems: Design And Troubleshooting
- Mechanical Electrical Control Systems: Energy Management
- Mechanical Electrical Control Systems: Electronic Controls
- Mechanical Electrical Control Systems: Responsive Systems

13. Motor/Industrial Drives(DSSBN15)

This bundle of courses is specially designed to teach you all the aspects of Motor and Industrial Drives in very interactive way. This training covers details of AC motor drive, variable speed drive, belt drives and chain drives. Complete package of these drives along with identification will be discussed.

Courses included are:

- Motor Drives: Motor Drive Identification
- Open and Closed Loop Systems
- Motor Drives: Variable Speed AC Drives
- Motor Drives: Servo and Stepper Motors
- Motor Drives: AC Motor Operation
- Motor Drives: AC Drive Selection and Setup
- Industrial Drives: Complete Drive Packages
- Industrial Drives: Belt Drives
- Industrial Drives: Chain Drives

14. Basic Engine Lathe(DSSBN16)

This bundle of courses is specially designed to teach you all the aspects of Basic Machine Lathe in very interactive way. This training covers details of identification of parts, working principles, and operations of lathe machine.

Courses included are:

- Basic Engine Lathe: Identification of Parts and Care
- Basic Engine Lathe: Speed and Feed
- Basic Engine Lathe: Grinding a Round-Nose Finishing Tool
- Basic Engine Lathe: Three Methods of Facing Work to Length
- Basic Engine Lathe: Straight Turning Work of Two Diameters
- Basic Engine Lathe: Straight Turning Between Centers
- Basic Engine Lathe: Drilling, Boring, and Reaming Work
- Basic Engine Lathe: Turning a Radius
- Basic Engine Lathe: Turning Tapers
- Basic Engine Lathe: Filing and Polishing
- Basic Engine Lathe: Knurling

15. Computer Numerical Control(DSSBN17)

This bundle of courses is specially designed to teach you all the aspects of Computer Numerical Control in very interactive way. This training covers details of using programs for milling activities, engraving activities, rotation and cutting compensation.

Courses included are:

- Computer Numerical Control: Introduction
- Computer Numerical Control: Preparing for Programming
- Computer Numerical Control: Absolute and Incremental Positioning
- Computer Numerical Control: One and Two Axis Linear Milling
- Computer Numerical Control: Three Axis Linear and Circular Milling
- Computer Numerical Control: Complete Milling Programs
- Computer Numerical Control: Drilling, Boring, and Spot-Facing
- Computer Numerical Control: Subroutines
- Computer Numerical Control: Special Cycles
- Computer Numerical Control: Mirror Image Special Cycles
- Computer Numerical Control: Quick Code
- Computer Numerical Control: Polar Coordinate Programming
- Computer Numerical Control: Scaling & Engraving Programming
- Computer Numerical Control: Rotation
- Computer Numerical Control: Cutter Compensation

16. Troubleshooting(DSSBN18)

This bundle of courses is specially designed to teach you the basic and importance aspects of Electrical and Mechanical Troubleshooting in industrial set up in very interactive way. This training covers details of troubleshooting procedures, skills required, lubricating oil and greases and diagnostic techniques.

Courses included are:

- Troubleshooting Procedures
- Electrical Troubleshooting Skills: Power Distribution and Lighting Systems
- Electrical Troubleshooting Skills: Motors and Motor Controls
- Mechanical Troubleshooting Skills: Pumps and Compressors
- Machinery Lubrication: Lubricating Oil - Types, Properties & Handling
- Machinery Lubrication: Lubricating Oil - Equipment & Procedures
- Machinery Lubrication: Lubricating Greases - Types, Application & Equipment
- Diagnostics and Troubleshooting

17. Motor Controls(DSSBN19)

This bundle of courses is specially designed to teach you all the aspects of Motor Controls in very interactive way. This training covers details of controls, relays, time delayed relays, wiring diagrams, schematics and maintenance and troubleshooting.

Courses included are:

- Motor Controls: Basic Motor Controls & Relays
- Motor Controls: Overload Protection Devices
- Motor Controls: Time Delay Relays
- Motor Controls: Schematic Symbols
- Motor Controls: Schematics and Wiring Diagrams
- Motor Controls: Starting Methods for Squirrel Cage Motors
- Motor Controls: Wye-Delta, Synchronous & Wound Rotor Controls
- Motor Controls: Installing & Troubleshooting control Systems
- DC Motor Controllers - Controller Function and Operation
- DC Motor Controllers: Maintenance and Troubleshooting

18. Pneumatics(DSSBN20)

This bundle of courses is specially designed to teach you all the aspects of Pneumatic Systems in very interactive way. This training covers details of compressed air, control valves, pneumatic circuit, maintenance and troubleshooting. Safety guidelines associated working with pneumatic systems are also discussed in detail.

Courses included are:

- Pneumatics: The Power of Compressed Air
- Pneumatics: The Pneumatic Circuit
- Pneumatics: Processing Air
- Pneumatics: Actuators
- Pneumatics: Pneumatic Control Valves
- Pneumatics: Working Safely with Pneumatic Systems
- Pneumatics: Pneumatic System Maintenance
- Pneumatics: Pneumatic System Troubleshooting

19. Pumps(DSSBN21)

This bundle of courses is specially designed to teach you all the aspects of pumping systems in very interactive way, with focus on Centrifugal Pumps. This training covers details of design, working, operations, maintenance and installation of centrifugal pumps. In addition, basics of pumping systems and actuators and compressors is also covered.

Courses included are:

- Centrifugal Pumps: Design and Function
- Centrifugal Pumps: System Characteristics and Selection
- Centrifugal Pumps: Operation and Maintenance
- Centrifugal Pumps: Troubleshooting & Disassembly
- Centrifugal Pumps: Reassembling and Installation
- Energy Management: Pumping Systems
- Mechanical Troubleshooting Skills: Pumps and Compressors
- Hydraulics: Pumps and Actuators

20. Basics of M&R(DSSBN22)

Specially designed to teach you the Basics of Maintenance and Reliability Principles in very interactive way. This training covers details of three pillars of M&R – people, processes and technologies.

Courses included are:

- Maintenance and Reliability Principles: People
- Maintenance and Reliability Principles: Processes
- Maintenance and Reliability Principles: Technologies
- Workplace Reading: Basic Maintenance & Reliability
- Workplace Reading: Literal Comprehension - Main Idea
- Workplace Reading: Literal Comprehension - Relationships
- Workplace Reading: Inference
- Workplace Reading: Study Maintenance & Reliability

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