

## Module 6: Pneumatic Systems

### Lecture 1

### Pneumatic system

Pneumatic technology deals with the study of behavior and applications of compressed air in our daily life in general and manufacturing automation in particular. Pneumatic systems use air as the medium which is abundantly available and can be exhausted into the atmosphere after completion of the assigned task.

#### 1. Basic Components of Pneumatic System:



Important components of a pneumatic system are shown in fig.6.1.1.

- a) **Air filters:** These are used to filter out the contaminants from the air.
- b) **Compressor:** Compressed air is generated by using air compressors. Air compressors are either diesel or electrically operated. Based on the requirement of compressed air, suitable capacity compressors may be used.
- c) **Air cooler:** During compression operation, air temperature increases. Therefore coolers are used to reduce the temperature of the compressed air.
- d) **Dryer:** The water vapor or moisture in the air is separated from the air by using a dryer.
- e) **Control Valves:** Control valves are used to regulate, control and monitor for control of direction flow, pressure etc.
- f) **Air Actuator:** Air cylinders and motors are used to obtain the required movements of mechanical elements of pneumatic system.

# Module 6 Pneumatic Systems Lecture 1 Pneumatic System

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## **Module 6 Pneumatic Systems Lecture 1 Pneumatic System:**

This book delves into Module 6 Pneumatic Systems Lecture 1 Pneumatic System. Module 6 Pneumatic Systems Lecture 1 Pneumatic System is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Module 6 Pneumatic Systems Lecture 1 Pneumatic System, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Module 6 Pneumatic Systems Lecture 1 Pneumatic System
    - Chapter 2: Essential Elements of Module 6 Pneumatic Systems Lecture 1 Pneumatic System
    - Chapter 3: Module 6 Pneumatic Systems Lecture 1 Pneumatic System in Everyday Life
    - Chapter 4: Module 6 Pneumatic Systems Lecture 1 Pneumatic System in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Module 6 Pneumatic Systems Lecture 1 Pneumatic System. This chapter will explore what Module 6 Pneumatic Systems Lecture 1 Pneumatic System is, why Module 6 Pneumatic Systems Lecture 1 Pneumatic System is vital, and how to effectively learn about Module 6 Pneumatic Systems Lecture 1 Pneumatic System.
  3. In chapter 2, the author will delve into the foundational concepts of Module 6 Pneumatic Systems Lecture 1 Pneumatic System. The second chapter will elucidate the essential principles that need to be understood to grasp Module 6 Pneumatic Systems Lecture 1 Pneumatic System in its entirety.
  4. In chapter 3, this book will examine the practical applications of Module 6 Pneumatic Systems Lecture 1 Pneumatic System in daily life. The third chapter will showcase real-world examples of how Module 6 Pneumatic Systems Lecture 1 Pneumatic System can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Module 6 Pneumatic Systems Lecture 1 Pneumatic System in specific contexts. The fourth chapter will explore how Module 6 Pneumatic Systems Lecture 1 Pneumatic System is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Module 6 Pneumatic Systems Lecture 1 Pneumatic System. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Module 6 Pneumatic Systems Lecture 1 Pneumatic System.

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