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**What are Electrical AC Drives? Classification of AC Drives and VFD.** Electrical drives are integral part of industrial and automation processes, particularly where precise control of speed of the motor is the prime requirement. In addition, all modern electric trains or locomotive systems have been powered by

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electrical drives.

## **What is AC Drive? Working & Types of Electrical Drives & VFD**

1.1 BLOCK DIAGRAM  
OF AN ELECTRICAL  
DRIVES The basic block  
diagram for electrical  
drives used for the  
motion control is  
shown in the following  
figure1.1 . Fig 1.1 Block  
Diagram for Electrical  
Drives The aggregate  
of the electric motor,

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the energy transmitting shaft and the control equipment by which

## **ELECTRICAL DRIVES & CONTROL**

But the speed of rotation of an electrical machine can be controlled precisely also by implementing the concept of drive.

The main advantage of this concept is, the motion control is easily optimized with the help

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Control  
of drive. In very simple words, the systems which control the motion of the electrical machines, are known as electrical drives.

## **What is an Electrical Drive? | Electrical4U**

Electrical Drives is defined as a form of machine equipment designs to convert electric energy into mechanical energy and provide the electrical or electronics control of

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the system. The basic function of the drive is to control the flow of energy from the grid to process.

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resistance, voltage,

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inductors, capacitors, electromagnetism, and more.

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Systems employed for motion control are called drives and may employ any of the prime movers. Drives employing electric motors are known as electric drives. or. The system which is used for controlling the motion of an electrical

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machine, such type of system is called an electrical drive. Factors Affecting the Selection of Electric Drive

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Below is the Electrical Drives MCQ Test that checks your basic knowledge of the Electrical Drives. This Electrical Drives MCQ

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Multiple Choice

Questions. You have to select the right answer to the question. Finally, You can also attempt Online Quiz from the Take Electrical Drives Quiz Button.

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ELECTRICAL DRIVES  
AND CONTROL Unit-I

Introduction Basic  
elements-types of  
electric drives-factors  
influencing electric  
drives-heating and  
cooling curves-

## **EE 6361 ELECTRICAL DRIVES & CONTROL**

Closed-loop control  
systems, common with  
servomotors, use  
feedback devices to

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provide information to a digital controller, which in turn drives the motor. In some cases, a tachometer may be used for velocity control and an encoder for position information. In other cases, a resolver provides both position and velocity feedback.

**Basic training for industrial electric motors, gearmotors**

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Control Question Bank:

Set-2. by ADMIN ·

December 10, 2014.

Switched Reluctance  
Motor related Interview

Questions: ... The  
switched reluctance  
motor basic principle is  
based on Faraday's law  
of electro magnetic  
interaction. Whenever  
a current carrying  
conductor is placed in  
a magnetic field, it  
experiences a force. ...

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## Drives And **Electrical Drives and Control Question Bank - DIY Projects**

Electrical Drives: What is meant by Electrical Drives? Systems employed for motion control are called as Drives. It may employ any of the prime movers (Diesel engines, steam turbines and electric motors) for supplying mechanical energy for motion control. Drives employing electric



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motors are called as  
Electrical Drives. In  
other words,

## **Electrical Drives: Introduction, classification - Power ...**

Upon successful completion of this course, students will be able to: 1. Understand the basic concept of electrical drives and their performance and control techniques. 2. Evaluate the power

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and torque requirements placed by mechanical systems on electrical drives. 3. Specify appropriate power electronic converters in drive applications. 4.

## **Electrical Drives and Control | Power Engineering ...**

This control is called constant margin angle control. [7] Why a synchronous motor without damper

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winding is used, in the drive system employing a cycloconverter? A synchronous motor without damper winding is used because the damper winding reduces the inductance of the machine, and therefore, its ability to filter out harmonics in the output ...

## **Electrical drives Interview Questions**

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Further, this armature current increases the motor torque and hence the speed. These are the two basic principles employed in DC drives to control the speed of the motor. In armature controlled DC drives, drive unit provides a rated current and torque at any speed between zero and the base of the motor.

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**What is DC Drive?  
Working and Types  
of DC Drives**

EE8353 - ELECTRICAL  
DRIVES AND  
CONTROLS LESSON  
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Books for Reference  
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INTRODUCTION 1.  
Basic Elements R1 T2  
1.9 35 2. Types of  
Electric Drives

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**DEPARTMENT OF  
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Electrical Machine  
Drives Control: An  
Introduction: An  
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Juha Pyrhönen;  
Valéria Hrabovcová ...

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of Electric Drives. Basic  
Electrical Engineering.

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Machine Drives Control  
An Introduction By Juha  
Pyrhönen, Valéria  
Hrabovcová and R.  
Scott Semken Preface:  
A basic study of  
electrical drives is  
fundamental to an  
electrical engineering  
curriculum, and, today,  
gaining a better  
academic  
understanding of the  
theory and application  
of controlled velocity  
electrical drive ...



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Electrical drives have many advantages over other mechanical drives. Electrical drives are more popular for its simple constructions, reliability, cleanliness, and smooth easy speed control. In electrical drives, both types of electrical

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motors, AC and DC  
motors are used for  
applications.

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