



Equipment II Motors



Course Objectives

1. Describe the purpose, theory of operation, and function of a motor.
2. Distinguish between AC and DC motors.
3. Identify typical auxiliary equipment associated with AC and DC motors.
4. Define drive component.
5. Define torque and slip as they refer to drive components.
6. Describe the general function of commonly used drive components.



Key Terms (Define the following)

motor - _____

stator - _____

windings - _____

rotor (armature) - _____

commutator - _____

motor controller - _____

motor control center (MMC) - _____

slip - _____

coupling - _____

clutch - _____

gear drive - _____

belt drive - _____

chain drive - _____



Principles

Motor Categories	
AC <ul style="list-style-type: none">• Synchronous• Induction	DC



Questions

1. An AC motor works by creating an electromotive force that turns the _____.
2. List the types of AC motors.

3. List three advantages of DC motors.
 - 1) _____
 - 2) _____
 - 3) _____
4. What is housed in a motor control center (MMC)?

5. What kind of applications use contactors and why?

6. What is the function of drive components?

7. List the categories of drive components.

8. Give one example of when a flexible coupling might be used?

9. What is one advantage of a chain drive versus a V-belt drive? What is a disadvantage?
advantage - _____
disadvantage - _____