

Alternator / Synchronous Motors Training | eLearning Course



eLearning Course: MB878

Amatrol's Multimedia Courseware - Alternator/Synchronous Motor (MB878) teaches learners essential alternator/synchronous motor concepts applicable throughout modern industry. Alternators and synchronous motors are used in a wide variety of industrial, commercial, and residential applications. Learners using Amatrol's alternator/synchronous motor eLearning course begin by studying the basic principles of alternators. From this building block, learners begin practicing industry-relevant skills, like alternator synchronization methods and the operation of synchronous motors.

In-Depth Alternator/Synchronous Motors Curriculum

Comprehensive Alternator/Synchronous Motor Curriculum Connected to Real-World Skills

Amatrol's alternator/synchronous motor eLearning course covers important topics, such as:

Alternators

Learners begin with an introduction to alternators, including alternator output voltage and frequency. Individual lessons focus on topics like how multi-phase AC power is produced, how to control the output voltage of an alternator, and how to calculate the output frequency of an alternator. Learners will also practice skills, such as connecting and operating a rotating armature type alternator, controlling the output voltage of an alternator, and calculating the output frequency of an alternator.

Alternator Synchronization Methods

Learners will study various alternator synchronization methods. Individual lessons focus on topics like synchronism and synchroscopes. Learners will also practice skills, such as synchronizing an alternator to the line using the three dark method and synchronizing an alternator to the line using a synchroscope.

Synchronous Motors

Learners using Amatrol's alternator / synchronous motor eLearning course will study basic principles of synchronous motors, including power factor correction. Individual lessons focus on topics like torque angle, how to correct power factor, and how to reverse a synchronous motor. Learners will also practice skills, such as connecting and operating a synchronous motor, operating a synchronous motor with lagging, unity, and leading power factor, and reversing the rotation direction of a synchronous motor.

Interactive eLearning with Learning Management System

Highly-Interactive Multimedia Format Appeals to All Learning Styles

Amatrol's alternator/synchronous motor eLearning course features interactive eLearning curriculum that integrates various types of learning methods to create an engaging, effective learning experience. Amatrol's multimedia [eLearning](#) curriculum includes text with voiceovers, videos, 3D animations, pictures, and interactive activities, quizzes, and self-reviews.

Free Learning Management System (LMS)

Amatrol eLearning is easy-to-use for both students and instructors. Its web-based interface is simple to navigate

and available on any WebGL-compatible Internet browser. Instructors love Amatrol eLearning for its simple, yet sophisticated Learning Management System (LMS). The LMS allows instructors to create custom courses, monitor student participation, track course progress, assess knowledge levels prior to a course, and test knowledge levels after completion. Learners appreciate the fact that they can start and stop as needed, moving through each Amatrol course at their own pace. If a self-review reveals that they didn't understand a particular topic as well as they thought they did, they can revisit it before moving on.

Additional Info



Requires:

- Computer (see [Computer Requirements](#))

Options:

- Alternator Synchronous Motor Learning System (85-MT2C)

Address

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