

# Motors, Variable Speed Drives & Energy Efficiency



This introductory course on motors and variable speed drives will give participants a better understanding of motors and the theory behind how they work. Applicable standards regarding motor efficiency will be discussed, in addition to best repair practices. The key features of each motor type will be analyzed to allow for optimal use, since choosing the right motor from the start will greatly improve energy performance. Also covered will be the situations in which variable speed drives (VSDs)

are required, their uses and the major control principles. Decision support for motor maintenance and repair will also be addressed. Case studies will be presented, both in terms of new motors and tune-ups.

## Topics Covered

- Energy efficiency standards
- Types of electric motors
- Selection of the motor type based on the application
- Motor repair
- Variable speed drives (VSDs)
- Maintenance of electric motors – prevention
- Software tools
- Case study

## Who should attend?

This short thematic course is ideal for the following clientele:

- Building operators, building managers, technical industry managers and energy managers
- Engineering firms and companies with professionals specializing in energy efficiency
- Maintenance personnel for energy efficiency services



## Logistics

**CEUs:** 0.7

**CSEP Points:** 2

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