

Seminars & Training - - AC Motor Control

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- Title:** Introduction to Variable Frequency Control
- Level:** Introductory - A basic knowledge of electricity and induction motors is required. Elementary algebra and trigonometry is useful but not required.
- Technique:** Power Point presentation with animations and Excel examples. Audience interaction.
- Duration:** One half day (4 hours with two 10 minute breaks)
- Topics:** Why Variable Speed?, Other Variable Speed Techniques, The AC Wave Form, RPM/Frequency/Motor Poles, VFD Components & Functions, Inverter Output, Effective Voltage & Its Control, Potential Problems and Fixes (bearing damage, harmonics, insulation stress, resonant frequency), Application Control Techniques (proportional, integral, derivative), Variable Speed Application Examples
- Result:** This seminar will allow students to gain a basic understanding of the inner workings of a VFD, its methods of application speed control, and the potential problems that might be encountered. They will also become knowledgeable of the various VFD application categories and when the VFD should and should not be used.