

Course Outline

Venue: KVAR Energy Savings, Inc. (Phone: 386-767-0048)

Address: 741 Orange Avenue, Daytona Beach, FL 32114



KVAR Energy Savings, Inc.

Day 1

008:30-09:30

- Course Introduction
- Participant Introduction
- History
- Facilities/Tour
- Curriculum for the 3 days

09:30-10:45

- Residential Equipment Overview
 - ID-1
 - Power Quality Meters
- Single Phase Electrical Equations and Symbols

10:45-11:00

- BREAK

11:00-12:00

- Demonstration Kit Presentation
- Power Factor Optimization
- Lab Exercise - Residential KVAR Panel Unit Sizing Procedures
- How to Position KVAR EC[®]

12:00-13:30

- Lunch / KVAR Sizing Procedure Review

13:30-15:00

- Classroom Review of KVAR Video Training
- Lab Exercise - Single Phase Motor KVAR Sizing Procedures

15:00-15:15

- Break

15:15-17:00

- Wye and Delta Transformer Connections

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www.kvar.com

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- Wye and Delta Motor Connections
- Nominal Voltages 480, 277, 240, 208, 120
- Power and Harmonics Analyzer
- Line Start and Load Side Connections
- National Electrical Code - Relevant Articles

Day 2

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08:30-10:00

- Recap of Previous Day
- Use of KVAR with Generators
- Use of KVAR with Solar
- Survey Sizing Spreadsheet and Software

10:00-10:15

- Break

10:15-12:00

- Three Phase Electrical Equations and Symbols
- Lab Exercise - Three Phase Motor KVAR Sizing Procedures
- Demonstration of Variable Frequency Drive
- Demonstration of Soft Start Device
- Review Three Phase Sizing Results from Training Lab

12:00-13:00

- Lunch

13:00-14:30

- Hands-on Certification (Electricians and Engineers Only)
- Estimating Savings
- Analyzing Electric Bills

14:30-14:45

- Break

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14:45-17:00

- Source of Power Factor
- Use of Single CT Meter
- Measurements on Wye Connected Motor/Load
- Measurements on a Delta Connected Motor/Load
- Special Applications

Day 3

08:30-10:00

- KVAR Technical Assessment and Evaluation

10:00-10:15

- Break

10:15-12:00

- Contacting Equipment/Motor Vendors
- KVAR Installing Procedures
- KVAR Sales and Marketing
- Certifications and Listings
- International Standards
- KVAR Distributor Web Portal

12:00-13:00

- Lunch

13:00-15:30

- Classroom Q&A
- Administrative Details
 - Ordering Process
 - Warranty and Product Registration
 - Domestic and International Shipping
- Sales Contracts and Distributor Agreements

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