

INTRODUCING THE ABB/B&D INDUSTRIAL ACSX80 TRAINING

ARE YOU TIRED OF GETTING POWERPOINTED TO DEATH WITHOUT ANY REAL SUBSTANCE? B&D DESIGNED THIS FOR ANYONE WANTING A BETTER UNDERSTANDING OF AC VFDs.



LIVE IN-PERSON TRAINING

1. ABB CERTIFIED EXPERT INSTRUCTION
2. SIX DEMO CASES (TWELVE STUDENTS MAX)
3. GUIDE AND REFERENCE BOOK INCLUDED
4. PRACTICAL AND USEFUL - NO SALES FLUFF

ABB MODERN DRIVES COVERED:
ACS880, ACS580, ACQ580, ACS380

THREE VERSIONS OF THE CLASS

TWO DAY COMPLETE COURSE: **\$3,200**

ONE DAY CONDENSED VERSION: **\$2,200**

ONE DAY DRIVES 101: **\$2,200**

SEE PAGE TWO FOR DETAILS



ABB

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#TRAINING DETAILS

Day 1 - Drives 101

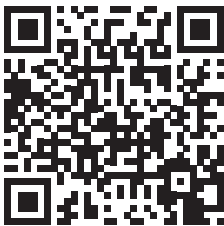
- ▶ Motor Control Design
 - ◇ Motor & Control Systems
 - ◇ Why a VFD – A lesson in Contrasts
- ▶ Electrical & Motion Fundamentals
 - ◇ Torque, Speed & Horsepower
 - ◇ Types of Motor Torque
 - ◇ Types of Motor Loads
- ▶ Electrical & Power Principles
 - ◇ Waveform Characteristics
 - ◇ Variable Frequency Drive Fundamentals
 - ◇ Pulse Width Modulation
 - ◇ Carrier Frequency
 - ◇ Fundamental Frequency
 - ◇ Control Modes for Speed & Torque
- ▶ Drive Installation & Programming
 - ◇ Common Wiring Connections
 - ◇ Parameters & Programming
 - ◇ Menu Navigation & LCD Display
 - ◇ Common Parameters
 - ◇ Braking Methods
- ▶ Troubleshooting Drive Problems
 - ◇ Basic Troubleshooting
 - ◇ Internal Tests & Checks
 - ◇ VFD Troubleshooting Checklist
- ▶ Summary and Q&A

Day 2

- ▶ All the brands of drive and the major differences
 - ◇ Not all drives are the same
 - ◇ Where ABB fits into the market
 - ◇ Producing a modern drive
 - ◇ Changing Support
- ▶ Applications and Planning
 - ◇ Choices: function and performance
 - ◇ Installation
 - * Location
 - * Power
 - * Motors
 - * Best Practices
- ▶ Introduction to Lab#1
 - ◇ Lab#1 – Basic discrete control
 - ◇ Lab#1 – Summary
- ▶ Introduction to Lab#2
 - ◇ Lab#2 – Analog and control
 - ◇ Lab#2 – Summary
- ▶ Summary and Q&A

NOTES:

- CONDENSED CLASS HAS ELEMENTS OF DAY 1 AND 2 WITH LAB#1 ONLY
- DRIVES 101 IS DAY 1 AND DOES NOT INCLUDE LABS
- ADVANCED PROGRAMMING WITH PLC INTEGRATION AVAILABLE AS A CUSTOMIZED COURSE
- THE TRAINING RUNS GENERALLY FROM 9AM TO 4PM
- LUNCH, DRINKS, SNACKS ARE PROVIDED BY THE TRAINEES
- DEMO CASES AVAILABLE TO PURCHASE FOR \$2,000 EACH



Meet the Engineers



APPLICATIONS
ENGINEERING GROUP

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