



### Course Offerings

#### Level I Courses

These courses provide an introduction and details of new, field proven and exciting ALL-TEST Pro technologies to evaluate the condition of electrical equipment. They provide the basic theories and procedures necessary to implement these emerging technologies to bring your facilities to a "World Class" status. The level I courses focus on the theories and principles required for AC induction motors and how to easily implement a comprehensive and reliable condition monitoring programs.

#### Deenergized testing technology (MCA Basic™):

- Allow for the early detection of developing winding faults before they become failure
- Enhances the ability to quickly and easily troubleshoot motor and other electrical equipment faults
- Estimate time until failure for developing winding faults
- Identifies "Good" motors as well as "Bad".

#### Energized testing technology (ESA Intro):

- Enhances and shortens the detection process of the condition monitoring process for machinery driven by AC Induction motors
- Allows for the detection of mechanical, electrical faults as well as the condition of incoming power
- Provides automatic analysis and reports providing the detailed condition of the entire motor system, including the motor, driven machine, process and incoming power in less than 10 minutes per machine.

#### Combined Energized and Deenergized Testing Technologies:

- Allows for the detection of 100% of Electrical and Mechanical faults within the motor system
- Provides detailed and comprehensive reports identify existing and developing faults within the motor system

#### Level II Courses

These courses provide a review of the contents of the level I courses and introduces additional testing techniques and procedures for testing AC induction motors as well as other types of electrical equipment. They provide additional and more advanced theories and procedures for further implementation of these technologies to place your plant at the very top of "World Class" facilities.

### 2020 Training Dates & Locations

#### Level I

San Diego, CA - January 27-31  
Abu Dhabi, UAE - February 23-27  
Atlanta, GA - March 9-13  
Edmonton, Canada - April 20-24  
Birmingham, UK - April 27-May 1  
Minneapolis, MN - June 15-19  
St. Louis, MO - July 27-31  
Chicago, IL - September 14-18  
New Orleans, LA - October 26-30  
New York, NY - November 16-20

#### Level II

Houston, TX - May 18-22  
Las Vegas, NV - December 7-11



ALL-TEST Pro, LLC is recognized by the Society for Maintenance and Reliability Professionals (SMRP) as an approved provider of continuing education and training aligned with key subject areas related to reliability and physical asset management.



ALL-TEST Pro, LLC is an accredited provider by the International Association for Continuing Education and Training (IACET).

**ALL-TEST Pro**

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### Course Offerings Continued

#### Level II Courses Continued

##### **Deenergized Testing Technology (MCA PRO™):**

- Allows for early detection of winding faults on various types of electrical machines including DC motors, Wind Turbines, and Transformers
- Enhance effectiveness of condition monitoring by adding MCA routes to predictive maintenance programs
- Identifies rotor faults on squirrel cage rotors using the RGS (Rotor Grading System)

##### **Energized Testing Technology (ESA Advanced):**

- Introduces Power Quality tables, polar diagrams, effects of harmonics
- Provides an understanding of the dynamic forces created by a machine's rotation, how to identify and correct them
- Learn how to perform ESA on VFD's & DC machines
- Reduce the detection time of the predictive maintenance process by applying ESA routes

##### **Combined Energized and Deenergized Testing Technologies:**

- "Bringing it altogether" helps identify the proper test techniques and how to combine other technologies to quickly and accurately identify faults in the motor system
- Learn how to setup energized and deenergized testing programs to place electrical reliability at the top of the "World Class" category.

#### **ALL-TEST Pro also offers On-Site Courses.**

Our on-site course offerings allow managers and maintenance crews to learn in the convenience of their own facility. Curriculum covers Motor Circuit Analysis™ (MCA™) and Electrical Signature Analysis (ESA) at multiple proficiency levels with 3-day and 5-day options.

- Eliminate travel expenses
- Flexible schedules
- Simultaneously train all members of your maintenance crew



For questions or for more information please contact us at [ce@alltestpro.com](mailto:ce@alltestpro.com) or 860-399-4222.