



# 1/2 Day Motor Testing Introduction

This 4-hour presentation introduces motor testing using field proven techniques for de-energized, Motor Circuit Analysis (MCA™) motor testing and energized, Electrical Signature Analysis (ESA) motor testing.

## De-energized Testing

MCA™ uses field proven techniques by injecting a series low voltage signals into a coil or series of coils to excite the insulation system surrounding the coils conductors. These non-destructive tests are performed while the motor or any coil system is de-energized and have proven to identify 80% more problems than the simple traditional motor tests.

This session will demonstrate the ease at which the ALL-TEST Pro MCA™ easy to use, handheld instruments can fully test, analyze and diagnose problems in the most common motors used in industry. It will also discuss financial benefits and payback associated with de-energized motor testing beginning with incoming & spares inspection. It will also discuss why the traditional tests of winding resistance and insulation resistance to ground tests only identify approximately 20% of the faults associated with motor winding systems.

## Energized Testing

ESA uses the motor's operating voltage and current to identify both existing and developing problems within the motor system, beginning with faults in the incoming power through the entire motor system to identifying faults in the process itself.

This session will demonstrate how to quickly and easily perform this testing, using the ATPOL II™ energized motor testing system. ESA performs non-destructive tests to identify many faults that are not present while the motor system is not operating. ESA is being widely used to identify faults easier, earlier, or in many cases unidentifiable using other methods. This session will use actual data to quickly analyze problems that were missed using other techniques.

**For More Information and to Register for this Class, please contact APT Group at [info@aptgroup.com.au](mailto:info@aptgroup.com.au) or PH. 1300 700 002**

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