



## MOTOR DESIGN LTD

### ADVANCED USE OF MOTOR-CAD

Training course for Engineers involved in the design and manufacture of electric motors and generators

**Goal:** To enhance the knowledge and skills of engineers in the use of Motor-CAD for thermal analysis of motors

**Date:** 2 Day Course on 18<sup>th</sup> & 19<sup>th</sup> June 2009

**Location:** Motor Design Training Rooms, Ellesmere, Shropshire, UK

**Cost:** £650 (40% discount for students and additional attendees from same company)

£1,100 for both Introduction to Motor-CAD and Advanced Use of Motor-CAD Courses (4 days in total)

To book Call +44 (0) 1691 623305 or Email: [info@motor-design.com](mailto:info@motor-design.com)

### DAY 1

#### Advanced use of Motor-CAD: Theory and Practice

On this training day we go through some of the advanced features in Motor-CAD (both the theory and practice). Such topics include:

- Complex duty cycle modelling
- Multi-parametric sensitivity analysis
- Fault analysis
- Advanced cooling types such as slot water jackets and spray cooling
- Calibration of a reduced nodal network
- Motor-CAD circuit editor
- Advanced option settings in Motor-CAD
- Links to other software such as SPEED, PORTUNUS, FEA, CFD, etc.
- Calibration of models using testing
- Automation of calculations using ActiveX scripting
- etc.

If at all possible, emphasis will be placed on topics that the attendees have more interest in.

### DAY 2

#### Practical Examples of Thermal Analysis using Motor-CAD

- On this training day we use Motor-CAD to model various electrical machines and to practice and demonstrate some of the issues covered on day 1 of the course
- There will be the chance to model the attendees machines
- The attendees will have the opportunity to use Motor-CAD themselves and to contribute suggestions for further design examples that we will try to model on the day