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Onsite Training Course:

Achieving reliable particle sizing: For users of Malvern laser diffraction particle size instruments

This one day onsite training course introduces the user to their particle size analyser (Malvern Mastersizer series) and focuses on the practical use of the instrument to achieve reliable results. The course consists of both presentations and practical sessions. A routine maintenance check of the instrument is included as part of the instruction followed by discussions on correct instrument operation.

Course outline

Talk: Routine maintenance

The Talk will introduce the Mastersizer by describing some of the hardware features of the instrument and accessories and some of the main features of the Mastersizer software. We will discuss how to achieve a good background and how to complete a performance check.

We will give an overview of the basic principles of particle sizing, what is meant by particle size and how is it measured using laser diffraction. Other topics covered include: common terms and numbers, how a size distribution is calculated, the difference between a manual and SOP measurement and when you would use each type.

Practical: Measurement procedure

The Practical will cover maintenance and demonstrate how to clean cell windows and replace tubing. Correct measurement procedures and the importance of running QAS glass bead standards will be discussed as well as how to set up the instrument correctly to achieve quality results.

We will cover representative sampling and dispersion by looking at how to select suitable dispersants and how to optimise parameters to obtain high quality and repeatable measurements. Optical properties such as refractive indices will be discussed while the various analysis models will be investigated to determine the most appropriate for the analysis. Finally some advanced software and reporting features will be demonstrated followed by Q&A time.

To book your attendance please complete the registration form on our website

www.atascientific.com.au