

# Supporting learning and development for Legal Metrology

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## National Competency Training for Weights and Measures Inspectors

Building on the success of the previous legal metrology training programme, this year's programme will enable local authorities and trading standards co-ordination groups to request training from a range of options, designed to meet local needs that can be tailored to the level of expertise of delegates. Each session will be delivered over the course of a day with a practical element included.

The topics identified so far are:

- Packaged goods and average quantity
- Non-automatic weighing instruments
- Automatic weighing instruments
- Developments in software used in weighing
- Bulk Fuel

Dates and venues to be confirmed and will be announced on the [CTSI website](#)

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Courses are suitable for Inspectors, irrespective of whether they are newly qualified or experienced, as well as trainees.

If your authority or region would like to access this free training and are able to assist in providing a venue to accommodate up to 12 delegates please contact: -

Email: [beverleyw@tsi.org.uk](mailto:beverleyw@tsi.org.uk)

## Courses

### **Bulk fuel** – practical issues in the inspection, testing and verification of bulk fuel tanker mounted meter measuring instruments

#### The course objectives include:

- introduction to meter measuring instruments and how to identify a regulated one
  - legislative controls on Meter Measuring Systems (MMS), including conformity assessment
  - building an MMS
  - known 'frauds' in the UK
  - practical bulk fuel session – site visit
  - questions and answers
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### **Packaged Goods Regulations**

#### The course objectives include:

- the legal requirements concerned with packing pre-packed products
  - amendments made by the W&M (Food)(Amendment) Regulations, 2014
  - the scope of the W&M (Packaged Goods) Regulations, 2006 (PGR)
  - specified quantities and aerosol marking
  - the establishment and working of 'sufficiently rigorous systems'
  - 'suitable' equipment for the packer to use
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### **Average Quantity Control Systems**

#### The course objectives include:

- consider the packing options for packers; both measuring the content of each package, and carrying out checks
  - discuss the suitability of 'evidence' to enable the importer to have reasonable grounds to believe that the pre-packages meet the requirements
  - look at the different types of equipment and their suitability in a quantity control system
  - be able to assess or establish a quantity control system that is 'sufficiently rigorous'
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### **Inspectors Training Packaged Goods Regulations Reference Test**

The course objectives include:

- the legal requirements concerned with performing a reference test to check a batch's compliance
  - how to perform practical tests at the end of a line and in a warehouse
  - (delegates will need to bring a laptop or scientific calculator)
  - equipment required, including estimation of measurement error to ensure the 0.2TNE requirement is met
  - identifying a batch, selection of sample using generated random times and numbers
  - checking compliance of the average and number of defective packaged goods in the sample, the options for corrective and preventive actions
  - the use of On Average Plus software
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### **Practical Initial Qualification Testing of low and high capacity Non-Automatic Weighing Instruments.**

The course objectives include:

- the legislative background to the Directive 2014/31
  - an understanding of the harmonised standard that underpins this
  - the checks that should be carried out during an initial verification
  - Type approvals and Declarations of Conformity
  - the mechanical processes involved in conformity assessment
  - the legal actions that can be taken by an Inspector in the event of failures being found
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## Courses

### Software in Measuring Instruments

The significance of software in weighing and measuring equipment has become paramount in their operation and must be seen in the same way as we would regard indicators on a weighbridge or the meter in a liquid fuel measuring instrument.

The course objectives include:

- an introduction to some of the terms that we need to understand when undertaking market surveillance and inspections on weighing and measuring instruments using software
- practical examples on how inspectors can manage software inspections
- examination of international guidance on this subject

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### The Practical Initial Qualification of Automatic Weighing Instruments

The course objectives include:

- the legislation covering automatic and non-automatic totalising instruments, automatic gravimetric weighing instruments and automatic rail weighbridges
- the wide range of controlled automatic weighing instruments that Inspectors of Weights and Measures may be expected to verify and inspect
- the verification of catch-weighers under OIML R51
- the controls necessary for check-weighers for the purpose of Directive 76/211



**We will also be running a weighing equipment familiarisation course for trainees and newly qualified officers.**

Delivered at the Office for Product Safety and Standards in Teddington, Middlesex - with the oversight from Safety & Standards staff, the day will allow attendees to examine and test numerous pieces of equipment.

Date to be confirmed - to register your interest please email [beverleyw@tsi.org.uk](mailto:beverleyw@tsi.org.uk)