

DAM Workshop on *Checking the net content in prepackages*

April 22–30, 1999
Munich, Germany

Nineteen participants from Bangladesh, Brazil, Bulgaria, Cuba, Czech Republic, Estonia, Lithuania, Macedonia, New Zealand, Romania, Slovenia and Thailand utilized the opportunity to gather comprehensive information on *Checking the net content in prepackages* during this Workshop organized by the German Academy of Metrology (DAM).

The training program consisted of a balanced mixture of theory and practical training in small groups for the application of the prepackaging directives.

The opportunity to discuss general and specific problems was welcomed and thoroughly utilized by the participants.

A final evaluation by the participants showed excellent results with regard to the content and organization of the workshop and also the quality of the teachers. In particular, the practical part was judged very helpful for their future work.

Theory

- **Legal Metrology in Germany and Europe**

(Motives for the introduction of regulations regarding prepackages, prepackages as part of our legal system, infrastructure of legal metrology in Germany, enforcement)

- **Basic statistics**

(Statistical distributions, mean value, standard deviation, confidence interval, basic requirements for statistical tests)

- **OIML**

(Introduction to the tasks of the OIML, relevant OIML Recommendations, Members, documents)

- **Prepackages - basis, definitions**

(Legal basis in Germany and in the rest of the EC, OIML Recommendations)

- **Labeling of prepackages**

(Net content, basic price, information by the manufacturer, e-marking, differences between German regulations, EC directives and OIML Recommendations)

- **Requirements for net content**

(Length, base, number of pieces, mass, volume, varying nominal quantity)

- **Test methods, sampling schemes**

(Operating characteristics, single sampling scheme/ double sampling scheme)

- **Prepackage control by public authorities**

(Checking of prepackages in trade)

- **Measuring containers/test by templates**

- **Determination of density**

- **Internal controls by the manufacturer**

Practice

- **Determination of density**

(Displacement method for lacquers, bottles used as pycnometers, metal pycnometers, glass pycnometers, densimeters, DMA (flexural mode method), determination of density of aerosols)

- **Prepackage control at a manufacturing plant**

- **Prepackage control at the Munich Verification Office**

(test of commodities:

- bottles filled with wine, beer or mineral water
- sour canned goods)

- **Presentation of weighing instruments and software for prepackage control with practical training**

On demand, the DAM will organize workshops and courses dealing with specific national themes of legal metrology. At present, workshops relating to weighing instruments, flow meters and calibration of storage tanks are in preparation.

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