TRAINMIC AS A EUROPEAN SHAREWARE TEACHING INITIATIVE FOR METROLOGY IN CHEMISTRY

Steluta Duta, Bertil Magnusson, Philip Taylor
European Commission, Joint Research Center, Institute for Reference Materials and Measurements
steluta.duta@ec.europa.eu, philip.taylor@ec.europa.eu

Abstract

On an international scale, the world of chemical measurements is undergoing major changes. As a consequence of the CIPM Mutual Recognition Arrangement, countries commenced to address the issue of the equivalence of measurement results. IRMM is the metrology institute of the European Commission and the mission of IRMM is to promote a common European measurement system in support of EU policies. Enlargement is one of these important policies. That has been the reason why in 2001, IRMM launched its Metrology in Chemistry support programme for candidate EU Member States. One of the initiatives of IRMM in the framework of support programme is the Training in Metrology in Chemistry (TrainMiC). TrainMiC is a European Commission funded training platform to foster advanced professional and European wide harmonised training on generic issues related to the quality of measurement results (Metrology in Chemistry), via a network of national providers. This training programme is intended both for laboratory practitioners well as for the ‘end-users’ of measurement results (e.g. regulatory, inspection, accreditation bodies). Several topics are addressed: (i) General introduction in Metrology in Chemistry; (ii) Validation of measurement procedures; (iii) Traceability of measurement results; (iv) Use of Reference Materials; (v) Uncertainty of measurement results; (vi) Inter-Laboratory comparisons; (vii) Applied Statistics. Besides the lectures, practical exercises on evaluation of measurement uncertainty, method validation and establishing traceability of measurement results are an essential part of the training courses. The platform intends to be open to all organisations and people signing the MiC charter. The detailed description of TrainMiC activities and TrainMiC presentations could be found in Report EUR 20841 EN "TrainMiC-Training in Metrology in Chemistry" with authors: P.Robouch E.Bulska, S.Duta, I.Leito. B.Magnusson, N.Majcen, M.Suchanek, E.Vassileva and P.Taylor (programme leader).TrainMiC is run in a distributed way, with national metrology institutes, universities, national accreditation bodies and/or other competent national...
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Key words

Metrology

TrainMiC is a European Commission-funded training platform to foster excellence in measurement science in chemical measurement.

This course is for people:
- Performing measurements involving border crossing issues between EU partners
- Laboratories (e.g. common database of results)
- Sectors in a regulation context (central laboratories, enforcement agencies)
- Sectors in technical assessment

Strategy
- Developing course material
- Implementing proper national deployment (national ambassadors, endorsed trainers)
- Sharing via the TrainMiC boards

Five Areas
- Accreditation
- NM
- National Teams
- International Teams
- Authorised Trainers

Deliverables
- Newsletter
- Quality Manual
- Web site

Knowledge
- Accreditation
- Authorised Trainers
- National Teams
- International Teams

Key Performance Indicators
- 2400 participants
- 75 training seminars
- In 18 countries

Major Assets
- Well-established contacts with National Stakeholders
- Experience National Trainers
- Efficient national logistics & infrastructure

In your ...