

QUA-THE-030

QUALITY IN ANALYTICAL LABORATORIES
Quality management

• **Context**

The International system set up to ensure the food safety is based on limits (regulatory but also analytical limits), which have to be considered by laboratories in charge of the control. The best way to ensure the quality of the laboratory results is to set up and implement a quality management system at the laboratory level. This is why a lot of international organisations are trying to promote not only quality management in laboratories but also the use of a homogeneous international system regarding quality and third party assessment of laboratories.

• **General objective(s)**

The aim of the present teaching module is first to explicit the international system set up to promote and ensure the quality in laboratories and secondly to provide some key elements for analysts and laboratory managers in order to understand the philosophy of a quality management system and its impact on the laboratory organisation. Mainly focused on the ISO17025 standard and accreditation, this module is expected to provide a general overview of international requirements and recommendations in terms of quality management systems, but also to give the trainees a qualitician point of view regarding the elements given during the training (ie validation process, technical methods...). Some information will also be given on Research management according to ISO 9001 standard.

• **Main items**

ISO17025 standard / Quality management system / ISO 9001 standard

• **Pedagogical objectives**

- ✓ Know the main international organisations dealing with quality management promotion in laboratories.
- ✓ Know the key elements of ISO17025 standard.
- ✓ Have a general overview of the impact of quality management in the organisation of a laboratory.

• **Pedagogical tools**

- ✓ PowerPoint slide show (+ paper printout and PDF file copy)

• **Duration**

1,25 hour

• **Pre-requisite**

- ✓ No pre-requisite needed, except an experience of the laboratory organisation and work.