Training Module I – Management Systems

Asia Pacific Economic Cooperation (APEC) Laboratory Capacity Building Workshop
Thailand – August 2011

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Session Outline

• Effective management systems are critical to a successful laboratory operation
• ISO 17025 accreditation will be discussed in detail
• Microbiology laboratory compliance
• Chemistry laboratory compliance
• Reference materials and their importance
• Case study on Quality Assurance
• Question and Answer session
Why is this so important?

- Critical decisions are made from lab test data
- Food safety issues happen very quickly and the lab testing must be dependable
- Test data must be comparable between different testing laboratories
- We must be able to understand the uncertainty of the test measurements
- We must avoid false negative and false positive test data
Critical Aspects of Lab Management

- Documentation and record keeping
- Quality Assurance / Quality Control
- Customer focus in all programs
- Effective training programs
- Method validation
- Laboratory qualification
- Laboratory proficiency
- Corrective action plans
ISO 17025 is an internationally recognized standard for testing laboratories. Management systems are well defined. Consistent documentation is required. Method performance needs to be documented. Laboratory performance must be demonstrated. Customer feedback is integral in the system.
Goals for Management Systems

- Predict laboratory accuracy
- Control the reproducibility of data between labs
- Consistent laboratory record keeping
- Maintain the tracibility of raw data
- Implement effective quality control
- Laboratory data that can be trusted
- Continuous improvement in operations
Session Objectives Today

- Learn from experts about laboratory management systems
- Gain an understanding of the critical aspects of ISO 17015 in the micro lab and chemistry lab
- Hear about some additional management tools that can be used in the lab
- Obtain a new or improved perspective on the management of lab operations
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