



**IQLS is an international public health laboratory consulting agency** that acts to strengthen laboratory capacities within a One Health approach.

**Since 2010**, we have been developing and organizing training solutions across **80+ countries** both at the system and facility level.

Our comprehensive training offer includes **90+ modules, with 50+ practical implementation workshops**, tailored to meet the needs of laboratory specialists in **human, veterinary, food and water laboratories**.

We also offer specialized courses for **epidemiologists, health economists, national coordination specialists, and more**.

Our training is **adapted to various expertise levels**, from comprehensive subjects like Quality Management Systems (QMS) to highly specialized topics such as In-Vitro Diagnostic Medical Devices (IVDMD) regulations.

Our courses are led by **an experienced team** of laboratory experts, microbiologists, pathologists, veterinarians, quality and regulatory specialists.

**Delivered in up to 9 languages** — English, French, Spanish, Portuguese, Russian, Armenian, Thai, Vietnamese and Khmer — our training and workshop sessions can be organized:

- **In-country** at the national, district and laboratory level
- **At our Training Hub** in Lyon, France
- **Online** within our Distance Learning platform



**Scan the code with your phone**  
to access our full training offer  
and course syllabi online:



## Strengthening laboratories

36 modules



### Bench-level training

- BL-01** Basic bacteriology: from culture media preparation to AST reporting
- BL-02** Advanced bacteriology: strengthening antibiotic resistance testing and surveillance
- BL-03** Bacteriology: culture media preparation, selection and use for V/W/F labs
- BL-04** Bacteriology: implementation of a comprehensive culture media preparation unit
- BL-05** Serology for human health laboratories
- BL-06** Serology for veterinary laboratories
- BL-07** TB bench-level training (microscopy, culture/DST, LPA, GeneXpert)
- BL-08** Molecular biology for human health laboratories
- BL-09** Molecular biology for veterinary laboratories
- BL-10** Molecular biology with emphasis on coronavirus
- BL-11** Molecular biology with emphasis on influenza and influenza variants (H/V)
- BL-12** Serology with emphasis on coronavirus
- BL-13** Malaria microscopy (according to WHO criteria)
- BL-14** Food safety microbiology
- BL-15** HIV bench level
- BL-16** Veterinary academic training on four emerging diseases: Lumpy Skin disease, Epidemic Diarrhea in Swine, Peste des petits ruminants, African Horse sickness

### Biosafety & Biosecurity

- BSS-01** Biosafety and biosecurity on-site support for human health laboratories
- BSS-02** Biosafety and biosecurity on-site support for veterinary laboratories
- BSS-03** Biosafety practices and risk assessment for human health laboratories
- BSS-04** Biosafety practices and risk assessment for veterinary laboratories
- BSS-05** TB laboratory biosafety training
- BSS-06** BSL-3 laboratory biosafety (Container BSL-3)
- BSS-07** National laboratory biosafety manual development
- BSS-08** Practical biosafety for BSL-2 laboratories
- BSS-09** Advanced BSS for laboratory personnel in high-risk CBRN environments

### Equipment

- E-01** Equipment maintenance and management for human health laboratories
- E-02** Equipment maintenance for veterinary laboratories
- E-03** Metrology training for medical laboratories
- E-04** National metrology unit implementation

### Outbreak control

- OC-01** Strengthening crisis and outbreak response: laboratory preparedness simulation
- OC-02** Setting up a field laboratory
- OC-03** Covid simulation

### Other training

- O-001** Basics of biostatistics for lab specialists – level 1
- O-002** Basics of biostatistics for lab specialists with MS Excel – level 2
- O-003** Basics of laboratory science for epidemiologists
- O-004** Basics of data management for medical labs

## Assessing lab systems and laboratories

12 modules



- A-01** Human laboratory facility assessment and training
- A-02** Veterinary laboratory facility assessment and training
- A-03** Human lab system assessment
- A-04** Vet/food safety lab system assessment
- A-05** Specimen transport system assessment
- A-06** AMR/AST program assessment
- A-07** TB laboratory assessment
- A-08** HIV laboratory assessment
- A-09** Malaria laboratory assessment
- A-10** GIS mapping of laboratory assessment data together with MS Excel
- A-11** TB laboratory system assessment
- A-12** Biosafety and biosecurity assessment for human and veterinary labs

## Reinforcing laboratory systems

16 modules



- LSA-01** Reference laboratories and referral system workshops 1 & 2
- LSA-02** Tiered level laboratory system workshop for human health laboratories
- LSA-03** Tiered level laboratory system workshop for veterinary laboratories
- LSA-04** Local/district laboratory networking capacities development workshop
- LSA-05** Lab strategy document and action plan development in response to COVID-19 pandemic
- LSA-06** Diagnostic algorithms workshop
- LSA-07** Lab system implementation workshop for H and V laboratories
- LSA-08** National biobank management training & workshop
- LSA-09** In vitro diagnostic medical devices (IVDMD) regulatory frameworks
- LSA-10** In vitro diagnostic medical devices (IVDMD): selection, assessment, and validation
- LSA-11** Brucella control program implementation
- LSA-12** Brucella control strategic plan development
- LSA-13** Development of a national human lab system strategic and implementation plan
- LSA-14** Development of a national V/F safety lab system strategic and implementation plan
- LSA-15** Development of a national TB lab system strategic and implementation plan
- LSA-16** National specimen management and referral system guideline development

## Improving quality

24 modules



### Quality Management System

- QM-01** QMS for human health laboratories – level 1
- QM-02** QMS for veterinary laboratories – level 1
- QM-03** QMS for human health and veterinary laboratories – level 2
- QM-04** Risk management: basic elements and application of FMEA in human health labs
- QM-05** QMS for laboratory management
- QM-06** ISO 9001 for laboratories – level 1
- QM-07** ISO 9001 for laboratories – level 2
- QM-08** ISO 9001 Documentation development workshop
- QM-09** ISO 15189 Medical laboratories: requirements for quality and competence
- QM-10** ISO 15189 Laboratory quality manual development
- QM-11** ISO 17025:2017 General requirements for competence of testing and calibration labs
- QM-12** ISO 17025:2017 Laboratory quality manual development
- QM-13** WHO LQSI for ISO15189, computerized MS Excel tool training
- QM-14** Internal quality control for laboratories
- QM-15** ISO standards for laboratory specialists (H/V/F/W)
- QM-16** Malaria laboratory QMS training
- QM-17** TB lab management training
- QM-18** Laboratory Quality Management System (based on 12 QSEs)

### External Quality Assessment

- EQA-01** National laboratory EQA on bacterial pathogens - workshop
- EQA-02** National laboratory EQA on bacterial pathogens - interface
- EQA-03** National laboratory EQA on bacterial pathogens - practical training
- EQA-04** National laboratory EQA on Brucella serology
- EQA-05** National laboratory EQA on COVID-19 PCR
- EQA-06** EQA programs organization according to ISO 17043

## Implementing lab software

7 modules



- S-01** WHONET for AST data management and reporting
- S-02** iQLIS: installation and use
- S-03** iQLIS: installation, administration and maintenance
- S-04** Malaria slide rechecking management software
- S-05** TB slide rechecking management software
- S-06** LabCompanion for lab network management – level 1
- S-07** LabCompanion for lab network management – level 2