



**TRINIDAD AND TOBAGO LABORATORY ACCREDITATION SERVICE**  
**LABORATORY SAFETY: REVIEW OF ISO 15190:2020 – MEDICAL LABORATORIES – REQUIREMENTS FOR SAFETY**

**Date: 2022-Dec-06, 08, 13 and 15**

**9:00 a.m. – 3:00 p.m.**

**ONLINE**

**PREAMBLE:**

Safety in the laboratory is very critical. Protection of the employee and the assets of the organisation, along with the prevention of negative environmental impacts are the reasons for the implementation of safety measures within a laboratory. The laboratory spends a lot in insurance to protect the equipment as well as against any hazards that may bring liability to the organisation.

ISO 15190 – *Medical laboratories – Requirements for safety* is a resource that identifies criteria that can be established and maintained in the laboratory to ensure a safe working environment. The standard, however, does not include criteria for laboratories that require containment levels 3 and 4 because of the human pathogens that it handles.

**AIM**

The aim of the programme is to provide a basic understanding of the various measures that may be employed to enjoy a safe working environment in the laboratory.

**COURSE DESCRIPTION:**

The subject matter enables an understandable explanation of the safe practices for the laboratory.

**TOPICS**

**SESSION 1: Hazards of a Laboratory**

- Biosafety and biosecurity hazards
- Chemical hazards
- Physical hazards

**SESSION 2: Hazard Identification and Risk Assessment**

- Hazard identification
- Job hazard assessment
- Risk assessment
- Risk reduction



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**SESSION 3: Management’s Role in Laboratory Safety**

- Management requirements and responsibilities
- Designing for safety
- Management of staff health
- The Laboratory Safety Officer and the Safety Manual
- Safety training
- Safety audits, inspection and records

**SESSION 4: Safety Measures**

- Fire safety
- Laboratory ergonomics
- Equipment safety
- Safe personnel work practices
- Personal protective equipment
- Transport of samples and hazardous materials
- Waste disposal
- Housekeeping practices

**SESSION 5: Emergency preparedness and response**

- Emergency preparedness and response
- Incidents, injury, accidents and occupational illnesses

**LEARNING OBJECTIVES:**

At the end of the training, participants would be able to:

- Understand the role of management, the laboratory safety officer and the staff in laboratory safety
- Understand the laboratory safety programme
- Identify hazards in the laboratory
- Understand the measures available to reduce the hazards in the laboratory
- Understand the process of emergency preparedness and response



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**TRAINING MATERIAL:**

Material needed for the duration of the course:

1. ISO 15190:2020 – *Medical laboratories – Requirements for safety*
2. Power point slide deck
3. Exercises

**OVERVIEW:**

The workshop will be conducted using a combination of “interactive” lecture style, Power Point presentations, and group exercises through the Zoom platform.

An evaluation form will be provided to the participants at the end of the programme to rank the course content, training material, facilitator and overall level of the programme using a numbered scale.

**TARGET GROUPS:**

- Laboratory directors
- Laboratory managers
- Quality managers
- Laboratory safety officers
- Technical laboratory staff

**PARTICIPANT CRITERIA:**

In order to ensure success, the following criteria are key:

- Hands-on laboratory experience
- Understanding of the operations of a laboratory

**ASSESSMENT:**

Participation in the exercises in the Group Work.



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**WORKSHOP AGENDA**

**UNDERSTANDING ISO 15190:2020**

**FACILITATOR:**

- Karlene Carolyn Lewis** – Manager, TTLABS

**COFFEE BREAKS: 10:30 A.M. – 10:45 A.M.**

**LUNCH: 12:00 P.M. – 12:45 P.M.**

**PROGRAMME OUTLINE:**

**Day 1: 9:00 a.m. – 3:00 p.m.**

1. Introductions and review of Objectives
2. Pre-Course Quiz
3. Course Introduction
4. Session 1: Hazards of a Laboratory
5. Session 2: Hazard Identification and Risk Assessment

**Day 2: 9:00 a.m. – 3:00 p.m.**

1. Session 3: Management's Role in Laboratory Safety
2. Session 4: Safety Measures

**Day 3: 9:00 a.m. – 3:00 p.m.**

1. Session 4: Safety Measures

**Day 4: 9:00 a.m. – 3:00 p.m.**

1. Session 4: Safety Measures
2. Session 5: Emergency Preparedness and Response

**END OF AGENDA**