LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 45001B — Occupational Health and Safety in Biotech Facilities

ISO Certification Programme

LAPT — London Academy of Professional Training

Address 85 Great Portland Street, W1W 7LT, London, United Kingdom

Email info@lapt.org

Telephone +44 7513 283044

Web lapt.org

Reference HL-BIO-45001B • ISO Health

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6	30	180	430	60%	Lifetime
SUBJECTS	CHAPTERS	CLASSES	TOTAL MARKS	PASS MARK	VALIDITY

AT A GLANCE

REFERENCE	**HL-BIO-45001B**
AWARD	**Certificate**
ASSESSMENT	**430 marks — 258 to pass (60%)**
PREREQUISITES	**None**
VALIDITY	**Lifetime**
AWARDING BODY	**LAPT — London Academy of Professional Training**

CURRICULUM

1 Assessment and Evaluation Strategies

5 chapters · 30 classes · **45 marks**

• 1 Understanding Assessment Frameworks for Occupational Health and Safety — 6 classes

- › 1.1 Define Key Terms in Occupational Health and Safety Assessment Frameworks
- › 1.2 Identify Essential Components of ISO 45001B Standards
- › 1.3 Analyze Different Assessment Frameworks for Biotech Facilities
- › 1.4 Evaluate the Importance of Risk Assessment in Health and Safety
- › 1.5 Develop a Basic Assessment Plan for a Biotech Facility
- › 1.6 Implement Assessment Feedback Mechanisms for Continuous Improvement

• 2 Identifying Key Performance Indicators (KPIs) in Biotech Facilities — 6 classes

- › 2.1 Define Key Performance Indicators (KPIs) in Biotech Context
- › 2.2 Identify Common KPI Categories for Biotech Facilities
- › 2.3 Analyze Regulatory Requirements Impacting KPI Selection
- › 2.4 Develop SMART Criteria for Effective KPIs
- › 2.5 Create a KPI Framework Tailored for Biotech Operations
- › 2.6 Assess and Revise KPIs for Continuous Improvement

• 3 Developing Quantitative and Qualitative Evaluation Methods — 6 classes

- › 3.1 Identify Key Performance Indicators for Safety Evaluation
- › 3.2 Design Quantitative Evaluation Tools for Data Collection
- › 3.3 Develop Qualitative Evaluation Frameworks for Feedback
- › 3.4 Analyze and Compare Data from Quantitative and Qualitative Methods
- › 3.5 Create Actionable Insights from Evaluation Results
- › 3.6 Implement Continuous Improvement Strategies Based on Evaluation Findings

• 4 Implementing Continuous Improvement through Assessment Feedback — 6 classes

- › 4.1 Identify Key Assessment Metrics for Continuous Improvement
- › 4.2 Analyze Feedback Mechanisms in Occupational Health and Safety
- › 4.3 Develop Action Plans from Assessment Results
- › 4.4 Implement Strategies for Effective Feedback Utilization
- › 4.5 Evaluate the Impact of Continuous Improvement Initiatives
- › 4.6 Promote a Culture of Safety Through Ongoing Assessment

• 5 Integrating Assessment Strategies into Leadership and Management Practices — 6 classes

- › 5.1 Define Key Assessment Strategies in Occupational Health and Safety
- › 5.2 Analyze the Role of Leadership in Assessment Practices
- › 5.3 Identify Stakeholder Needs for Effective Evaluation
- › 5.4 Develop Tailored Assessment Tools for Biotech Facilities
- › 5.5 Implement Continuous Feedback Mechanisms in Leadership
- › 5.6 Review and Adapt Assessment Strategies for Improved Outcomes

2 Continuous Improvement in Health and Safety

5 chapters · 30 classes **65 marks**

1 Understanding Continuous Improvement Concepts in Occupational Health and Safety — 6 classes

- 1.1 Define Continuous Improvement in Health and Safety
- 1.2 Identify Key Principles of Continuous Improvement
- 1.3 Explore the Role of Leadership in Continuous Improvement
- 1.4 Analyze the Benefits of Continuous Improvement in Biotech Facilities
- 1.5 Implement a Simple Framework for Continuous Improvement
- 1.6 Evaluate Continuous Improvement Initiatives and Their Impact

2 Assessing Current Health and Safety Practices — 6 classes

- 2.1 Identify Key Health and Safety Regulations in Biotech
- 2.2 Evaluate Current Safety Protocols and Procedures
- 2.3 Conduct Risk Assessments for Biotech Operations
- 2.4 Analyze Incident Reports to Identify Patterns
- 2.5 Engage Staff in Health and Safety Feedback Sessions
- 2.6 Develop Action Plans for Continuous Improvement

3 Implementing Continuous Improvement Strategies — 6 classes

- 3.1 Analyze Current Health and Safety Protocols
- 3.2 Identify Improvement Opportunities in Workflow
- 3.3 Develop a Continuous Improvement Action Plan
- 3.4 Implement Feedback Mechanisms for Staff Engagement
- 3.5 Evaluate the Effectiveness of Improvement Strategies
- 3.6 Foster a Culture of Continuous Improvement in Biotech Facilities

4 Monitoring and Measuring Health and Safety Outcomes — 6 classes

- 4.1 Identify Key Performance Indicators for Health and Safety Outcomes
- 4.2 Develop a Monitoring Strategy for Continuous Improvement
- 4.3 Implement Effective Data Collection Methods for Health and Safety
- 4.4 Analyze Quantitative and Qualitative Data for Insights
- 4.5 Report Health and Safety Outcomes to Stakeholders
- 4.6 Create an Action Plan Based on Monitoring Results

5 Fostering a Culture of Continuous Improvement in Biotech Facilities — 6 classes

- 5.1 Identify Key Elements of a Continuous Improvement Culture
- 5.2 Assess Current Health and Safety Practices in Biotech
- 5.3 Engage Employees in Continuous Improvement Initiatives
- 5.4 Implement Effective Feedback Mechanisms for Safety Improvements
- 5.5 Monitor and Measure Success of Health and Safety Changes
- 5.6 Develop Action Plans for Ongoing Health and Safety Enhancement

3 Designing Safety Management Systems

5 chapters · 30 classes **85 marks**

1 Understanding ISO 45001B Standards in Biotech — 6 classes

- 1.1 Identify Key Components of ISO 45001B Standards
- 1.2 Explore the Importance of Leadership in Safety Management
- 1.3 Analyze Risk Assessment Processes in Biotech Facilities
- 1.4 Develop Effective Communication Strategies for Safety
- 1.5 Implement Continuous Improvement Practices in Safety Management
- 1.6 Evaluate Real-World Case Studies of ISO 45001B Implementation

2 Risk Assessment and Management in Biotech Facilities — 6 classes

- 2.1 Define Key Concepts in Risk Assessment for Biotech Facilities
- 2.2 Identify Common Risks in Biotech Operations
- 2.3 Analyze Potential Impacts of Identified Risks
- 2.4 Evaluate Existing Control Measures in Biotech Settings
- 2.5 Develop a Risk Management Action Plan for Biotech Facilities
- 2.6 Implement and Monitor Risk Control Strategies Effectively

3 Developing Safety Management Policies and Procedures — 6 classes

- 3.1 Identify Key Components of Safety Management Policies
- 3.2 Assess Current Safety Practices in Biotech Facilities
- 3.3 Develop Comprehensive Safety Procedures for Biotech Workflows
- 3.4 Integrate Legal and Regulatory Requirements into Safety Policies
- 3.5 Create a Framework for Continuous Safety Improvement
- 3.6 Implement and Communicate Safety Management Policies to Staff

4 Culture and Leadership in Occupational Health and Safety — 6 classes

- 4.1 Understand the Importance of Organizational Culture in Health and Safety
- 4.2 Identify Key Leadership Traits That Promote a Safety Culture
- 4.3 Assess Current Safety Culture within Your Organisation
- 4.4 Develop Strategies for Effective Safety Leadership
- 4.5 Foster Employee Engagement in Health and Safety Practices
- 4.6 Evaluate the Impact of Leadership on Safety Management System Outcomes

5 Monitoring, Evaluation, and Continuous Improvement — 6 classes

- 5.1 Analyze Current Monitoring Practices in Biotech Safety Management
- 5.2 Identify Key Performance Indicators for Safety Evaluation
- 5.3 Develop a Framework for Systematic Safety Audits
- 5.4 Implement Feedback Mechanisms for Continuous Improvement
- 5.5 Utilize Data Analytics to Enhance Safety Performance
- 5.6 Create Action Plans for Addressing Safety Gaps

4 Introduction to ISO 45001 Standards

5 chapters · 30 classes **65 marks**

- **1 Understanding ISO 45001: Key Principles and Framework** — 6 classes
  - 1.1 Define ISO 45001: Understanding the Standard's Purpose and Importance
  - 1.2 Identify Key Principles of ISO 45001: Foundations of Occupational Health and Safety
  - 1.3 Analyze the ISO 45001 Framework: Structure and Components of the Standard
  - 1.4 Explore Risk Management in ISO 45001: Assessing Hazards and Opportunities
  - 1.5 Examine Leadership Responsibilities Under ISO 45001: Roles and Commitment
  - 1.6 Apply ISO 45001 in Biotech Facilities: Developing a Safety Management Action Plan
- **2 Context of the Organization: Stakeholders and Requirements** — 6 classes
  - 2.1 Identify Key Stakeholders in Biotech Facilities
  - 2.2 Assess Stakeholder Needs and Expectations
  - 2.3 Understand Legal and Regulatory Requirements for Safety
  - 2.4 Analyze Internal Context of the Organization for ISO Compliance
  - 2.5 Evaluate External Context Factors Affecting Health and Safety
  - 2.6 Develop a Stakeholder Engagement Plan for ISO 45001
- **3 Risk Assessment Methodologies for Health and Safety in Biotech** — 6 classes
  - 3.1 Identify key principles of ISO 45001 standards in biotech facilities
  - 3.2 Analyze hazard identification techniques applicable to biotechnology
  - 3.3 Explore qualitative risk assessment methods for health and safety
  - 3.4 Evaluate quantitative risk assessment approaches in biotech contexts
  - 3.5 Implement control measures based on risk assessments in biotech facilities
  - 3.6 Review case studies of effective risk assessment applications in biotechnology
- **4 Leadership and Worker Participation in HSMS Implementation** — 6 classes
  - 4.1 Define Leadership Roles in HSMS Implementation
  - 4.2 Explore Worker Participation Benefits in HSMS
  - 4.3 Identify Key Leadership Competencies for ISO 45001
  - 4.4 Develop Strategies for Effective Worker Engagement
  - 4.5 Analyze Case Studies of Successful Leadership in HSMS
  - 4.6 Create an Action Plan for Enhancing Leadership and Participation
- **5 Continuous Improvement: Evaluation and Auditing for Compliance** — 6 classes
  - 5.1 Define Continuous Improvement in Occupational Health and Safety
  - 5.2 Identify Key Elements of ISO 45001 for Auditing Compliance
  - 5.3 Analyze the Role of Audits in Continuous Improvement Processes
  - 5.4 Develop an Action Plan for Effective Compliance Evaluation
  - 5.5 Implement Tools and Techniques for Monitoring Compliance
  - 5.6 Review Case Studies of Successful ISO 45001 Audits in Biotech

5 Risk Management in Biotech Facilities

5 chapters · 30 classes **105 marks**

- **1 Foundations of Risk Management in Biotech Facilities** — 6 classes
  - 1.1 Understand the Basics of Risk Management in Biotech Facilities
  - 1.2 Identify Common Risks in Biotech Operations
  - 1.3 Analyze the Impact of Risks on Health and Safety
  - 1.4 Explore Risk Assessment Methodologies for Biotech
  - 1.5 Develop Effective Risk Mitigation Strategies
  - 1.6 Implement a Risk Management Plan in Biotech Facilities
- **2 Identifying Hazards and Assessing Risks in Biotech Operations** — 6 classes
  - 2.1 Identify Common Hazards in Biotech Facilities
  - 2.2 Analyze the Impact of Hazards on Personnel and Operations
  - 2.3 Evaluate Risk Levels Using a Risk Matrix
  - 2.4 Prioritize Risks for Effective Mitigation Strategies
  - 2.5 Develop a Hazard Reporting Protocol for Staff
  - 2.6 Create an Action Plan for Continuous Risk Assessment
- **3 Implementing Control Measures and Mitigation Strategies** — 6 classes
  - 3.1 Identify Hazards in Biotech Operations
  - 3.2 Analyze Risk Assessment Techniques
  - 3.3 Develop Control Measures for High-Risk Areas
  - 3.4 Implement Mitigation Strategies for Employee Safety
  - 3.5 Monitor and Review Control Measures Effectiveness
  - 3.6 Foster a Safety Culture through Training and Communication
- **4 Monitoring and Reviewing Risk Management Processes** — 6 classes
  - 4.1 Identify Key Performance Indicators for Risk Management
  - 4.2 Establish Systems for Continuous Risk Monitoring
  - 4.3 Conduct Regular Risk Assessments and Audits
  - 4.4 Review Incident Reports and Near Misses
  - 4.5 Facilitate Stakeholder Feedback on Risk Processes
  - 4.6 Implement Improvement Actions Based on Review Outcomes
- **5 Leadership in Risk Management and Safety Culture** — 6 classes
  - 5.1 Define Leadership Roles in Risk Management
  - 5.2 Assess Current Safety Culture in Biotech Facilities
  - 5.3 Identify Key Components of an Effective Safety Policy
  - 5.4 Develop Strategies for Enhancing Safety Culture
  - 5.5 Implement Risk Management Training for Leaders
  - 5.6 Evaluate Leadership Impact on Safety Outcomes

6 Safety Culture and Leadership

5 chapters · 30 classes **65 marks**

- **1 Understanding Safety Culture in Biotechnology** — 6 classes
  - 1.1 Define and Analyze Safety Culture in Biotechnology
  - 1.2 Identify Key Components of a Positive Safety Culture
  - 1.3 Assess Current Safety Culture in Your Biotech Facility
  - 1.4 Explore Leadership's Role in Shaping Safety Culture
  - 1.5 Develop Strategies to Enhance Safety Culture Engagement
  - 1.6 Implement and Evaluate Safety Culture Improvement Initiatives
- **2 Leadership Styles and their Impact on Safety Culture** — 6 classes
  - 2.1 Analyze Different Leadership Styles in Safety Culture
  - 2.2 Evaluate the Influence of Transformational Leadership on Safety Practices
  - 2.3 Assess the Role of Transactional Leadership in Compliance and Safety
  - 2.4 Identify Key Attributes of Effective Safety Leaders
  - 2.5 Develop Strategies for Fostering a Positive Safety Culture
  - 2.6 Implement Leadership Techniques to Enhance Safety Engagement
- **3 Risk Assessment and Communication Strategies** — 6 classes
  - 3.1 Identify Key Risks in Biotech Facilities
  - 3.2 Analyze Risk Factors Affecting Safety Culture
  - 3.3 Evaluate the Impact of Leadership on Risk Management
  - 3.4 Develop Effective Communication Strategies for Risk Awareness
  - 3.5 Implement Training Programs for Risk Prevention
  - 3.6 Monitor and Improve Risk Assessment Practices
- **4 Building an Inclusive Safety Leadership Framework** — 6 classes
  - 4.1 Define Inclusive Safety Leadership Principles
  - 4.2 Assess Current Safety Culture in Biotech Facilities
  - 4.3 Identify Barriers to Inclusion in Safety Practices
  - 4.4 Develop Strategies for Inclusive Safety Communication
  - 4.5 Implement Leadership Behaviors that Promote Safety Inclusion
  - 4.6 Evaluate the Impact of Inclusive Safety Leadership on Team Performance
- **5 Sustaining Safety Culture Through Continuous Improvement** — 6 classes
  - 5.1 Identify Key Elements of a Safety Culture
  - 5.2 Assess Current Safety Culture in Your Facility
  - 5.3 Develop Strategies for Safety Culture Improvements
  - 5.4 Engage Leadership in Promoting Safety Initiatives
  - 5.5 Implement Continuous Feedback Mechanisms for Safety
  - 5.6 Evaluate and Sustain Safety Culture Over Time