LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 17225 — Solid Biofuels Fuel Specifications

ISO Certification Programme

LAPT — London Academy of Professional Training

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Reference ENG-BFU-17225 • ISO Energy

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

AT A GLANCE

REFERENCE	**ENG-BFU-17225**
AWARD	**Certificate**
ASSESSMENT	**430 marks — 258 to pass (60%)**
PREREQUISITES	**None**
VALIDITY	**Lifetime**
AWARDING BODY	**LAPT — London Academy of Professional Training**

CURRICULUM

1 Environmental Impact Assessment

5 chapters · 30 classes · **85 marks**

- **1 Understanding ISO 17225 Standards and Solid Biofuels** — 6 classes
  - 1.1 Identify the Key Components of ISO 17225 Standards
  - 1.2 Analyze the Different Types of Solid Biofuels Included in ISO 17225
  - 1.3 Evaluate the Environmental Impact of Solid Biofuels Using ISO 17225 Criteria
  - 1.4 Compare ISO 17225 with Other Biofuel Standards
  - 1.5 Implement Best Practices for Compliance with ISO 17225 in Biofuel Production
  - 1.6 Create an Action Plan for Assessing Solid Biofuels in Environmental Impact Assessments
- **2 Life Cycle Assessment Methodologies for Biofuels** — 6 classes
  - 2.1 Define Life Cycle Assessment in the Context of Biofuels
  - 2.2 Identify Key Phases of Life Cycle Assessment for Solid Biofuels
  - 2.3 Analyze Environmental Impact Metrics in Biofuel Life Cycles
  - 2.4 Compare Different Life Cycle Assessment Methodologies for Biofuels
  - 2.5 Apply Life Cycle Assessment Techniques to Evaluate Specific Biofuels
  - 2.6 Assess Implications of Life Cycle Assessment Results on Biofuel Policy
- **3 Assessing Emission Profiles of Solid Biofuels** — 6 classes
  - 3.1 Identify Key Emission Factors of Solid Biofuels
  - 3.2 Analyze Carbon Footprint of Different Solid Biofuels
  - 3.3 Evaluate Impact of Combustion Efficiency on Emissions
  - 3.4 Compare Emission Profiles Across Solid Biofuel Sources
  - 3.5 Assess Regulatory Standards for Emissions in Biofuels
  - 3.6 Develop Strategies for Reducing Emissions from Solid Biofuels
- **4 Evaluating Sustainability Criteria in Biofuel Production** — 6 classes
  - 4.1 Analyze the Key Sustainability Criteria for Biofuel Production
  - 4.2 Assess the Environmental Impact of Biofuel Feedstock Selection
  - 4.3 Evaluate Life Cycle Analysis Methods for Solid Biofuels
  - 4.4 Identify Regulatory Standards for Sustainable Biofuel Production
  - 4.5 Examine Case Studies of Successful Sustainable Biofuel Projects
  - 4.6 Propose Strategies for Enhancing Sustainability in Biofuel Practices
- **5 Reporting and Communicating Environmental Impacts** — 6 classes
  - 5.1 Identify Key Environmental Impacts of Solid Biofuels
  - 5.2 Analyze ISO 17225 Fuel Specifications and Their Importance
  - 5.3 Evaluate Methods for Reporting Environmental Impacts
  - 5.4 Communicate Findings Effectively to Stakeholders
  - 5.5 Develop a Framework for Continuous Impact Assessment
  - 5.6 Create an Action Plan for Improving Environmental Reporting

2 ISO 17225 Standards Overview

5 chapters · 30 classes **105 marks**

1 Introduction to ISO 17225 Standards and Biofuels — 6 classes

- 1.1 Define ISO 17225 and Its Importance in Biofuel Standards
- 1.2 Identify Key Components of ISO 17225 Specifications
- 1.3 Explore the Types of Solid Biofuels Covered by ISO 17225
- 1.4 Examine the Classification System Used in ISO 17225
- 1.5 Analyze the Implications of Non-Compliance with ISO 17225
- 1.6 Develop Strategies for Implementing ISO 17225 Standards in Practice

2 Categorization of Solid Biofuels According to ISO 17225 — 6 classes

- 2.1 Define Solid Biofuels and Their Importance
- 2.2 Identify Key Categories of Solid Biofuels in ISO 17225
- 2.3 Analyze Physical and Chemical Properties of Biofuels
- 2.4 Examine Specification Standards for Each Biofuel Category
- 2.5 Compare and Contrast Different Types of Solid Biofuels
- 2.6 Apply ISO 17225 Standards to Real-world Biofuel Examples

3 Physical and Chemical Properties of Solid Biofuels — 6 classes

- 3.1 Identify Key Physical Properties of Solid Biofuels
- 3.2 Analyze Chemical Composition of Solid Biofuels
- 3.3 Compare Density and Moisture Content in Solid Biofuels
- 3.4 Evaluate Energy Content and Ash Content of Solid Biofuels
- 3.5 Assess the Impact of Physical Properties on Combustion Performance
- 3.6 Apply ISO 17225 Standards to Real-World Solid Biofuel Samples

4 Testing Methods and Quality Assurance in Biofuels — 6 classes

- 4.1 Explain the Importance of Quality Assurance in Biofuel Testing
- 4.2 Identify Key Testing Methods in ISO 17225 Standards
- 4.3 Analyze Sample Collection Techniques for Biofuel Testing
- 4.4 Evaluate Laboratory Procedures for Quality Assessment
- 4.5 Compare Quality Parameters Specified in ISO 17225
- 4.6 Implement a Quality Control Plan for Biofuel Production

5 Implementation and Compliance with ISO 17225 Standards — 6 classes

- 5.1 Understand the Key Principles of ISO 17225 Standards
- 5.2 Identify Requirements for Compliance in Biofuel Specifications
- 5.3 Evaluate Biofuel Quality Against ISO 17225 Standards
- 5.4 Develop Implementation Strategies for ISO 17225 Compliance
- 5.5 Monitor and Audit Compliance Procedures for Biofuels
- 5.6 Implement Continuous Improvement Processes for ISO 17225 Standards

3 ISO Compliance Initiatives

5 chapters · 30 classes **45 marks**

1 Understanding ISO 17225: Overview and Importance — 6 classes

- 1.1 Define ISO 17225 and Its Scope
- 1.2 Identify Key Components of ISO 17225 Specifications
- 1.3 Explain the Importance of Compliance in Solid Biofuels
- 1.4 Evaluate the Impact of ISO 17225 on Industry Practices
- 1.5 Discuss Challenges in Achieving ISO 17225 Compliance
- 1.6 Implement Strategies for Enhancing ISO 17225 Compliance

2 Key Specifications and Requirements of ISO 17225 — 6 classes

- 2.1 Identify Key Specifications of ISO 17225
- 2.2 Analyze Requirements for Solid Biofuels Quality
- 2.3 Evaluate Pre-Processing Standards in ISO 17225
- 2.4 Interpret Testing Methods for Compliance Validation
- 2.5 Explore Documentation and Reporting Obligations
- 2.6 Implement Best Practices for ISO 17225 Compliance

3 Implementation Strategies for ISO 17225 Compliance — 6 classes

- 3.1 Assess Current Practices Against ISO 17225 Standards
- 3.2 Identify Key Stakeholders for Compliance Implementation
- 3.3 Develop a Step-by-Step Compliance Action Plan
- 3.4 Integrate Documentation Processes for ISO 17225
- 3.5 Train Staff on Compliance Procedures and Best Practices
- 3.6 Monitor and Evaluate Compliance Progress Effectively

4 Monitoring and Auditing for ISO 17225 Adherence — 6 classes

- 4.1 Understand ISO 17225 Standards and Requirements
- 4.2 Identify Key Metrics for Monitoring Compliance
- 4.3 Develop Effective Auditing Strategies for ISO 17225
- 4.4 Implement Monitoring Tools for Continuous Improvement
- 4.5 Analyze Audit Results for Compliance Gaps
- 4.6 Create an Action Plan for ISO 17225 Adherence

5 Continuous Improvement and Future Trends in ISO Compliance — 6 classes

- 5.1 Analyze Continuous Improvement Models in ISO Compliance
- 5.2 Evaluate Current Trends in Solid Biofuels Standards
- 5.3 Discuss the Role of Technology in Enhancing ISO Processes
- 5.4 Identify Key Challenges in Implementing ISO 17225 Standards
- 5.5 Develop Strategies for Effective Stakeholder Engagement
- 5.6 Create an Action Plan for Future ISO Compliance Initiatives

4 Stakeholder Engagement and Collaboration

5 chapters · 30 classes **45 marks**

• 1 Understanding Stakeholder Identification in Biofuel Supply Chains — 6 classes

- 1.1 Define Key Stakeholders in Biofuel Supply Chains
- 1.2 Identify Stakeholder Roles and Responsibilities
- 1.3 Analyze Stakeholder Interests and Motivations
- 1.4 Map Stakeholder Relationships Within Supply Chains
- 1.5 Assess the Impact of Stakeholder Engagement on Biofuel Projects
- 1.6 Develop Strategies for Effective Stakeholder Collaboration

• 2 Building Effective Communication Strategies with Stakeholders — 6 classes

- 2.1 Identify Key Stakeholders in the Solid Biofuels Sector
- 2.2 Analyze Stakeholder Interests and Influences
- 2.3 Develop Tailored Communication Plans for Diverse Stakeholders
- 2.4 Apply Active Listening Techniques in Stakeholder Meetings
- 2.5 Leverage Digital Tools for Enhanced Stakeholder Engagement
- 2.6 Evaluate the Effectiveness of Communication Strategies Post-engagement

• 3 Facilitating Collaborative Decision-Making Processes — 6 classes

- 3.1 Define Collaborative Decision-Making in Biofuels
- 3.2 Identify Key Stakeholders in Solid Biofuels
- 3.3 Analyze Stakeholder Interests and Objectives
- 3.4 Develop Effective Communication Strategies for Collaboration
- 3.5 Implement Facilitation Techniques for Group Discussions
- 3.6 Evaluate Outcomes of Collaborative Decisions in Biofuels

• 4 Conflict Resolution and Negotiation Skills for Stakeholder Engagement — 6 classes

- 4.1 Identify Sources of Conflict in Stakeholder Engagement
- 4.2 Analyze Conflict Styles: Understanding Your Approach
- 4.3 Develop Effective Communication Strategies for Resolution
- 4.4 Practice Active Listening Techniques in Negotiations
- 4.5 Explore Collaborative Problem-Solving Methods
- 4.6 Role-Play Negotiation Scenarios to Strengthen Skills

• 5 Evaluating Stakeholder Engagement Outcomes and Best Practices — 6 classes

- 5.1 Identify Key Stakeholder Groups for Engagement
- 5.2 Assessing Current Stakeholder Engagement Strategies
- 5.3 Analyzing Stakeholder Feedback and Outcomes
- 5.4 Developing Metrics for Evaluating Engagement Success
- 5.5 Best Practices for Effective Stakeholder Communication
- 5.6 Creating an Action Plan for Improved Stakeholder Collaboration

5 Strategic Planning for Biofuels

5 chapters · 30 classes **65 marks**

• 1 Understanding the Biofuels Sector and Its Importance — 6 classes

- 1.1 Explore the Fundamentals of Biofuels and Their Categories
- 1.2 Analyze the Economic Impact of the Biofuels Sector
- 1.3 Examine Environmental Benefits of Utilizing Biofuels
- 1.4 Identify Key Players and Stakeholders in the Biofuels Industry
- 1.5 Assess Regulatory Frameworks Governing Biofuels Production
- 1.6 Develop Strategic Recommendations for Biofuels Adoption

• 2 Assessing Market Dynamics and Stakeholder Needs — 6 classes

- 2.1 Identify Key Market Trends in Biofuel Demand
- 2.2 Analyze Stakeholder Perspectives on Biofuels
- 2.3 Evaluate Competitive Landscape of Solid Biofuels
- 2.4 Assess Regulatory Impacts on Biofuel Market Dynamics
- 2.5 Formulate Strategies to Address Stakeholder Needs
- 2.6 Develop an Action Plan for Market Entry Based on Assessments

• 3 Developing Strategic Frameworks for Biofuels Production — 6 classes

- 3.1 Analyze Current Trends in Biofuels Production
- 3.2 Identify Key Stakeholders in Biofuels Supply Chain
- 3.3 Define Goals and Objectives for Biofuels Strategy
- 3.4 Develop SWOT Analysis for Biofuel Projects
- 3.5 Create Action Plans for Implementation of Biofuel Strategies
- 3.6 Evaluate and Adjust Biofuels Strategy Based on Feedback

• 4 Implementing and Monitoring Biofuels Strategies — 6 classes

- 4.1 Evaluate Current Biofuels Practices for Strategic Alignment
- 4.2 Identify Key Performance Indicators for Biofuels Strategies
- 4.3 Develop a Monitoring Framework for Biofuels Implementation
- 4.4 Analyze Data Collection Methods for Biofuels Monitoring
- 4.5 Adjust Biofuels Strategies Based on Performance Feedback
- 4.6 Communicate Results and Recommendations for Biofuels Strategies

• 5 Future Trends and Innovations in Biofuels Strategy — 6 classes

- 5.1 Analyze Emerging Technologies in Biofuels
- 5.2 Evaluate Regulatory Changes Impacting Biofuels
- 5.3 Identify Market Opportunities for Biofuel Innovations
- 5.4 Compare Global Trends in Biofuel Production
- 5.5 Formulate Strategic Partnerships for Biofuel Development
- 5.6 Design Sustainable Business Models for Future Biofuels

6 Sustainable Energy Management

5 chapters · 30 classes **85 marks**

- **1 Understanding Sustainable Energy Management Principles** — 6 classes
  - 1.1 Define Sustainable Energy Management Concepts
  - 1.2 Explore the Importance of ISO 17225 Standards
  - 1.3 Assess the Impact of Solid Biofuels on Energy Sustainability
  - 1.4 Analyze Life Cycle Assessments in Biofuel Production
  - 1.5 Evaluate Strategies for Implementing Sustainable Energy Practices
  - 1.6 Develop a Personal Action Plan for Promoting Sustainable Energy
- **2 Overview of ISO 17225 Requirements** — 6 classes
  - 2.1 Understand the Scope and Purpose of ISO 17225
  - 2.2 Identify Key Terms and Definitions Within ISO 17225
  - 2.3 Explore the Classification of Solid Biofuels in ISO 17225
  - 2.4 Analyze the Quality Requirements for Solid Biofuels
  - 2.5 Examine the Testing Methods for Biofuel Specifications
  - 2.6 Apply ISO 17225 Standards in Real-World Biofuel Management
- **3 Assessment of Solid Biofuel Quality and Performance** — 6 classes
  - 3.1 Identify Key Parameters for Assessing Solid Biofuel Quality
  - 3.2 Analyze the Impact of Moisture Content on Biofuel Performance
  - 3.3 Evaluate the Importance of Ash Content in Solid Biofuels
  - 3.4 Examine Techniques for Measuring Calorific Value in Biofuels
  - 3.5 Compare the Performance of Different Solid Biofuel Types
  - 3.6 Develop a Quality Assessment Framework for Solid Biofuels
- **4 Sustainability Assessment in Biofuel Production** — 6 classes
  - 4.1 Evaluate the Principles of Sustainability in Biofuel Production
  - 4.2 Analyze Key Standards and Regulations in ISO 17225
  - 4.3 Assess Environmental Impacts of Various Biofuel Feedstocks
  - 4.4 Compare Economic Viability of Biofuel Production Methods
  - 4.5 Integrate Stakeholder Perspectives in Sustainability Assessments
  - 4.6 Develop a Sustainable Biofuel Production Plan
- **5 Leadership Strategies for Implementing ISO 17225** — 6 classes
  - 5.1 Define Leadership Roles in Implementing ISO 17225
  - 5.2 Analyze Stakeholder Engagement Strategies for Compliance
  - 5.3 Develop a Communication Plan for ISO 17225 Implementation
  - 5.4 Assess Training Needs for Team Members on ISO 17225 Standards
  - 5.5 Create a Step-by-Step Action Plan for Operationalizing ISO 17225
  - 5.6 Evaluate Leadership Effectiveness Through ISO 17225 Implementation Metrics