

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 16890 — Air Filters for General Ventilation

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 ENV-AIR-16890 • ISO Environmental Sustainability

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

REFERENCE	ENV-AIR-16890
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

Air Filter Performance Assessment

5 chapters · 30 classes85 marks

• 1 Understanding ISO 16890 Standards and Framework — 6 classes

› 1.1 Explore the Key Concepts of ISO 16890 Standards

› 1.2 Identify the Importance of Air Filter Performance in Ventilation

› 1.3 Analyze the Classification System Defined by ISO 16890

› 1.4 Evaluate Air Filter Testing Methods Under ISO 16890

› 1.5 Compare ISO 16890 with Previous Air Filter Standards

› 1.6 Apply ISO 16890 Criteria to Real-World Air Filter Selection

• 2 Fundamental Principles of Air Filter Performance — 6 classes

› 2.1 Describe the Basic Functionality of Air Filters

› 2.2 Identify Different Types of Air Filters and Their Applications

› 2.3 Explain the Key Performance Metrics for Air Filters

› 2.4 Analyze the Impact of Air Filter Performance on Indoor Air Quality

› 2.5 Evaluate Performance Testing Methods for Air Filters

› 2.6 Apply ISO 16890 Standards to Assess Air Filter Performance

• 3 Testing Methods for Air Filters in Accordance with ISO 16890 — 6 classes

› 3.1 Understand the ISO 16890 Testing Framework

› 3.2 Identify Key Performance Metrics for Air Filters

› 3.3 Explore the Different Testing Methods Defined by ISO 16890

› 3.4 Conduct Particle Size Distribution Assessments

› 3.5 Analyze Air Filter Efficiency Results

› 3.6 Apply Testing Results to Air Filter Selection and Performance Evaluation

• 4 Analysis and Interpretation of Air Filter Performance Data — 6 classes

› 4.1 Identify Key Performance Metrics of Air Filters

› 4.2 Analyze Data Sources for Air Filter Performance

› 4.3 Interpret ISO 16890 Standards for Air Filter Assessment

› 4.4 Compare Performance Data of Different Air Filter Types

› 4.5 Evaluate Impact of Environmental Factors on Filter Performance

› 4.6 Apply Data Insights to Improve Air Filter Selection

• 5 Sustainability Approaches in Air Filtration Systems — 6 classes

› 5.1 Assess Environmental Impact of Air Filters

› 5.2 Understand Lifecycle Analysis in Filtration

› 5.3 Evaluate Energy Efficiency in Air Filtration

› 5.4 Explore Sustainable Materials for Filters

› 5.5 Implement Strategies for Improving Filter Longevity

› 5.6 Develop a Sustainable Air Filtration System Proposal

• 1 Understanding Indoor Air Quality and Its Importance — 6 classes

- › 1.1 Define Indoor Air Quality and Its Components
- › 1.2 Explore the Health Impacts of Poor Indoor Air Quality
- › 1.3 Analyze Common Sources of Indoor Air Pollution
- › 1.4 Identify Standards and Regulations for Indoor Air Quality
- › 1.5 Assess the Role of Ventilation in Enhancing Indoor Air Quality
- › 1.6 Implement Best Practices for Maintaining Healthy Indoor Air Quality

• 2 The Role of ISO 16890 in Air Filter Classification — 6 classes

- › 2.1 Understand the Basics of ISO 16890 for Air Filters
- › 2.2 Explore the Classification System of ISO 16890
- › 2.3 Analyze the Impact of Filter Efficiency on Indoor Air Quality
- › 2.4 Investigate the Testing Methods for ISO 16890 Compliance
- › 2.5 Examine Case Studies of ISO 16890 Implementation
- › 2.6 Apply ISO 16890 Standards in Real-World Ventilation Scenarios

• 3 Assessment of Air Quality: Measurement and Evaluation Techniques — 6 classes

- › 3.1 Define Key Air Quality Metrics for Evaluation
- › 3.2 Identify Measurement Instruments for Air Quality Assessment
- › 3.3 Implement Sampling Techniques for Accurate Data Collection
- › 3.4 Analyze Data from Air Quality Measurements
- › 3.5 Evaluate Compliance with ISO 16890 Standards
- › 3.6 Apply Findings to Improve Indoor Air Quality Strategies

• 4 Impact of Air Filtration on Indoor Air Quality — 6 classes

- › 4.1 Explain the Role of Air Filtration in Indoor Air Quality
- › 4.2 Identify Key Components of ISO 16890 Standards
- › 4.3 Analyze the Relationship Between Air Filters and Pollutants
- › 4.4 Evaluate the Performance of Different Air Filter Types
- › 4.5 Assess the Impact of Air Filter Maintenance on IAQ
- › 4.6 Implement Best Practices for Enhancing Indoor Air Quality

• 5 Strategies for Improving Indoor Air Quality Using ISO 16890 Standards — 6 classes

- › 5.1 Evaluate Current Air Quality Standards and Their Limitations
- › 5.2 Analyze ISO 16890 Terminology and Classification of Air Filters
- › 5.3 Compare Different Air Filter Technologies Under ISO 16890
- › 5.4 Develop a Sampling Strategy for Indoor Air Quality Assessment
- › 5.5 Implement ISO 16890 Standards in Air Filter Selection Process
- › 5.6 Create a Monitoring and Maintenance Plan for Sustaining Air Quality

• 1 Overview of ISO 16890 and Its Importance in Air Quality Management — 6 classes

- › 1.1 Explain the Purpose of ISO 16890 in Air Quality Management
- › 1.2 Identify Key Components and Terminology of ISO 16890
- › 1.3 Compare ISO 16890 with Previous Air Filter Standards
- › 1.4 Analyze the Impact of ISO 16890 on Indoor Air Quality
- › 1.5 Evaluate the Benefits of Adopting ISO 16890 Standards
- › 1.6 Implement ISO 16890 Guidelines in Air Filter Selection

• 2 Key Concepts and Terminology of ISO 16890 — 6 classes

- › 2.1 Define Key Terminology of ISO 16890
- › 2.2 Explain the Importance of Air Filters in Ventilation
- › 2.3 Identify Different Classes of ISO 16890 Air Filters
- › 2.4 Describe the Testing Methods Under ISO 16890
- › 2.5 Analyze the Impact of Air Filter Efficiency on Indoor Air Quality
- › 2.6 Apply ISO 16890 Standards to Selecting Air Filters for Specific Applications

• 3 Testing and Classification of Air Filters Under ISO 16890 — 6 classes

- › 3.1 Understand the Purpose and Scope of ISO 16890
- › 3.2 Explore the Testing Methodology for Air Filters
- › 3.3 Identify Key Performance Metrics for Air Filters
- › 3.4 Classify Air Filters Based on ISO 16890 Standards
- › 3.5 Analyze Case Studies of ISO 16890 Compliance
- › 3.6 Implement Best Practices for Air Filter Selection

• 4 Implementation Strategies for ISO 16890 Compliance — 6 classes

- › 4.1 Identify Key Components of ISO 16890 Compliance
- › 4.2 Analyze Existing Air Filter Systems for Compliance Gaps
- › 4.3 Develop a Step-by-Step Implementation Plan for ISO 16890
- › 4.4 Evaluate the Results of Air Quality Testing Post-Implementation
- › 4.5 Create Training Modules for Staff on ISO 16890 Practices
- › 4.6 Formulate a Continuous Improvement Strategy for Ongoing Compliance

• 5 Future Trends and Challenges in Air Filter Standards and Sustainability — 6 classes

- › 5.1 Explore Future Trends in Air Filter Standards
- › 5.2 Identify Key Challenges in Implementing ISO 16890
- › 5.3 Analyze the Impact of Sustainability on Air Filter Technology
- › 5.4 Evaluate Innovations in Air Filter Design for Energy Efficiency
- › 5.5 Determine Regulatory Changes Affecting Air Filter Standards
- › 5.6 Develop Strategies for Adopting Sustainable Air Filter Practices

• 1 Understanding ISO 16890 Standards and Air Quality Management

— 6 classes

- › 1.1 Explore ISO 16890 – Understanding Standard Framework and Objectives
- › 1.2 Analyze Key Terminology – Defining Air Filter Classifications and Metrics
- › 1.3 Assess Air Quality Importance – Impact of Air Filters on Indoor Environments
- › 1.4 Evaluate Testing Protocols – Methodologies for Air Filter Performance Assessment
- › 1.5 Implement ISO 16890 Guidelines – Strategies for Effective Air Quality Management
- › 1.6 Develop Action Plans – Integrating ISO 16890 into Environmental Leadership Practices

• 2 Air Filter Performance Metrics and Testing Methodologies — 6

classes

- › 2.1 Analyze Air Filter Performance Metrics
- › 2.2 Explore Testing Methodologies for Air Filters
- › 2.3 Compare ISO 16890 Standards with Previous Standards
- › 2.4 Evaluate Real-world Applications of Air Filter Testing
- › 2.5 Implement Quality Control in Air Filter Selection
- › 2.6 Develop Strategies for Continuous Improvement in Air Filtration

• 3 Implementation Strategies for ISO 16890 Compliance — 6 classes

- › 3.1 Assess Organizational Readiness for ISO 16890 Implementation
- › 3.2 Identify Key Stakeholders and Their Roles in Compliance
- › 3.3 Develop a Roadmap for Achieving ISO 16890 Compliance
- › 3.4 Create a Training Program for Employees on ISO 16890 Standards
- › 3.5 Establish Monitoring and Reporting Mechanisms for Compliance
- › 3.6 Evaluate and Adjust Implementation Strategies Based on Feedback

• 4 Environmental Impact Assessment of Air Filtration Systems — 6

classes

- › 4.1 Analyze the Role of Air Filtration in Environmental Management
- › 4.2 Identify Key Standards and Regulations for Air Filtration Systems
- › 4.3 Evaluate the Environmental Impact of Various Air Filter Types
- › 4.4 Assess the Lifecycle of Air Filtration Systems and Their Sustainability
- › 4.5 Develop a Framework for Effective Environmental Impact Assessments
- › 4.6 Propose Strategies for Enhancing Air Filter Efficiency and Minimizing Impact

• 5 Leadership in Driving Air Quality Improvement Initiatives — 6

classes

- › 5.1 Assess Current Air Quality Standards in Leadership Practices
- › 5.2 Identify Key Stakeholders in Air Quality Improvement Initiatives
- › 5.3 Develop a Strategic Plan for Implementing ISO 16890 Standards
- › 5.4 Foster Team Collaboration for Effective Air Quality Management
- › 5.5 Evaluate the Impact of Leadership Decisions on Air Quality
- › 5.6 Communicate Air Quality Initiatives Effectively to Stakeholders

• 1 Understanding ISO 16890: Principles and Standards — 6 classes

- › 1.1 Define the Key Concepts of ISO 16890
- › 1.2 Explore the Structure and Scope of ISO 16890 Standards
- › 1.3 Examine the Testing Methods for Air Filters Under ISO 16890
- › 1.4 Analyze the Benefits of Implementing ISO 16890 Standards
- › 1.5 Discuss Case Studies on Successful ISO 16890 Implementation
- › 1.6 Develop a Strategic Plan for ISO 16890 Adoption in Organizations

• 2 The Importance of Air Quality in Environmental Sustainability — 6

classes

- › 2.1 Understand the Importance of Air Quality for Health and Wellbeing
- › 2.2 Explore the Principles of Environmental Sustainability in Air Quality Management
- › 2.3 Analyze the Impact of Air Quality Standards on Public Health
- › 2.4 Investigate the Role of ISO 16890 in Enhancing Air Quality
- › 2.5 Assess the Benefits of Implementing ISO Standards in Ventilation Systems
- › 2.6 Develop a Strategy for Integrating ISO 16890 Standards in Your Organization

• 3 Strategic Benefits of Implementing ISO 16890 — 6 classes

- › 3.1 Understand the Importance of ISO 16890 for Air Quality Management
- › 3.2 Identify Key Components and Requirements of ISO 16890
- › 3.3 Assess the Benefits of Implementing ISO 16890 for Organizations
- › 3.4 Explore Case Studies on Successful ISO 16890 Implementation
- › 3.5 Develop an Action Plan for Strategic Implementation of ISO 16890
- › 3.6 Evaluate Long-term Impacts of ISO 16890 on Organizational Performance

• 4 Implementing ISO 16890: Practical Considerations — 6 classes

- › 4.1 Identify Key Principles of ISO 16890 Standards
- › 4.2 Assess Existing Air Filter Systems Against ISO 16890 Requirements
- › 4.3 Develop a Strategic Plan for ISO 16890 Implementation
- › 4.4 Engage Stakeholders in the ISO 16890 Implementation Process
- › 4.5 Monitor and Evaluate the Effectiveness of Implemented Standards
- › 4.6 Adapt Implementation Strategies Based on Feedback and Results

• 5 Measuring Success: Monitoring and Continuous Improvement —

6 classes

- › 5.1 Define Key Performance Indicators for ISO 16890 Compliance
- › 5.2 Establish Baseline Measurements for Air Filter Efficiency
- › 5.3 Implement a Monitoring System for Continuous Data Collection
- › 5.4 Analyze Performance Data to Identify Improvement Areas
- › 5.5 Develop Action Plans for Addressing Performance Gaps
- › 5.6 Review and Adjust Strategies Based on Continuous Feedback

• 1 Understanding ISO 16890: Framework and Purpose — 6 classes

- › 1.1 Define ISO 16890 and Its Significance in Air Quality
- › 1.2 Identify Key Components of the ISO 16890 Framework
- › 1.3 Explain the Purpose of ISO 16890 in Ventilation Systems
- › 1.4 Analyze the Relationship Between ISO 16890 and Sustainability
- › 1.5 Discuss Compliance Requirements Under ISO 16890 Standards
- › 1.6 Implement ISO 16890 Guidelines for Environmental Best Practices

• 2 Principles of Air Quality and Environmental Sustainability — 6 classes

- › 2.1 Understand the Fundamentals of Air Quality and Its Impact on Health
- › 2.2 Explore the Relationship Between Air Quality and Environmental Sustainability
- › 2.3 Examine ISO 16890 Standards and Their Relevance to Air Filters
- › 2.4 Identify Key Sources of Indoor and Outdoor Air Pollution
- › 2.5 Assess Air Quality Improvement Strategies in Ventilation Systems
- › 2.6 Implement Best Practices for Sustainable Air Filter Selection

• 3 Classification of Air Filters According to ISO 16890 — 6 classes

- › 3.1 Understand the Key Concepts of Air Filter Classification
- › 3.2 Explore the Components of ISO 16890 Standard
- › 3.3 Analyze the Different Categories of Air Filters
- › 3.4 Compare Performance Metrics in Filter Classification
- › 3.5 Evaluate Environmental Impact of Various Air Filters
- › 3.6 Apply ISO 16890 Standards to Real-World Scenarios

• 4 Impact of Air Filters on Environmental Compliance — 6 classes

- › 4.1 Analyze the Role of Air Filters in Promoting Sustainable Ventilation
- › 4.2 Evaluate Environmental Standards Related to Air Filter Performance
- › 4.3 Investigate the Lifecycle Impact of Air Filters on Environmental Compliance
- › 4.4 Compare ISO 16890 with Other Air Filter Standards for Sustainability
- › 4.5 Design a Sustainable Air Filter Application for Compliance
- › 4.6 Present Case Studies Showcasing Effective Use of Air Filters in Environmental Compliance

• 5 Implementing ISO 16890 for Enhanced Sustainability Practices — 6 classes

- › 5.1 Understand ISO 16890 Standards and Principles
- › 5.2 Identify Key Components of Air Filter Performance in Ventilation
- › 5.3 Assess Environmental Impacts of Air Filter Choices
- › 5.4 Analyze Case Studies of ISO 16890 Implementation
- › 5.5 Develop a Sustainable Air Filter Selection Process
- › 5.6 Create a Plan for Continuous Improvement in Air Quality Management