

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 61730 — PV Module Safety Qualification

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference ENG-RNW-61730 • ISO Energy

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AT A GLANCE

REFERENCE	ENG-RNW-61730
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

ISO 61730 Compliance and Standards

5 chapters · 30 classes85 marks

• 1 Understanding ISO 61730: Overview and Objectives — 6 classes

› 1.1 Define ISO 61730 and Its Importance in PV Modules

› 1.2 Identify Key Components of ISO 61730 Compliance

› 1.3 Explore the Objectives of ISO 61730 Certification

› 1.4 Analyze the Implications of ISO 61730 for Safety Standards

› 1.5 Discuss the Role of ISO 61730 in Enhancing Product Reliability

› 1.6 Evaluate Real-world Applications of ISO 61730 in the Industry

• 2 Key Components of ISO 61730 Compliance — 6 classes

› 2.1 Identify Key Components of ISO 61730 Compliance

› 2.2 Analyze the Importance of Safety Testing in PV Modules

› 2.3 Examine Risk Assessment Procedures for PV Modules

› 2.4 Evaluate Material Standards in ISO 61730 Compliance

› 2.5 Implement Quality Control Measures for PV Module Safety

› 2.6 Develop a Compliance Checklist for ISO 61730 Standards

• 3 Testing Methodologies for PV Module Safety — 6 classes

› 3.1 Explain the Importance of ISO 61730 in PV Module Safety

› 3.2 Identify Key Testing Methodologies for PV Module Compliance

› 3.3 Describe the Procedure for Insulation Resistance Testing

› 3.4 Evaluate the Outdoor Test Conditions for PV Modules

› 3.5 Compare Electrical and Mechanical Testing Requirements

› 3.6 Apply Testing Results to Assess PV Module Safety Compliance

• 4 Documentation and Certification Processes — 6 classes

› 4.1 Identify Key Documentation Required for ISO 61730 Compliance

› 4.2 Understand the ISO 61730 Certification Process Steps

› 4.3 Analyze Common Non-Conformities in PV Module Documentation

› 4.4 Develop a Compliance Checklist for ISO 61730 Certification

› 4.5 Evaluate the Role of Testing Reports in Certification Approval

› 4.6 Implement a Review Process for Continuous Compliance Monitoring

• 5 Future Trends and Challenges in PV Module Safety Standards — 6 classes

› 5.1 Explore Emerging Trends in PV Module Safety Standards

› 5.2 Analyze Current Challenges in Compliance with ISO 61730

› 5.3 Assess the Impact of Technological Advancements on PV Safety

› 5.4 Evaluate Global Regulatory Changes Affecting ISO 61730 Standards

› 5.5 Develop Strategies for Enhancing PV Module Safety Compliance

› 5.6 Implement Best Practices for Future PV Safety Standards

• 1 Understanding ISO 61730 and its Importance in PV Module Safety

— 6 classes

- › 1.1 Explore ISO 61730: Key Concepts and Definitions
- › 1.2 Identify the Importance of Safety in PV Modules
- › 1.3 Examine the Benefits of ISO 61730 Certification
- › 1.4 Analyze Case Studies: ISO 61730 in Action
- › 1.5 Develop a Safety Management Plan Using ISO 61730 Principles
- › 1.6 Create a Strategy for Implementing ISO 61730 in Your Organization

• 2 Risk Assessment and Management in Solar Energy Projects — 6

classes

- › 2.1 Identify Key Risks in Solar Energy Projects
- › 2.2 Assess Likelihood and Impact of Risks
- › 2.3 Develop Risk Mitigation Strategies
- › 2.4 Implement Risk Management Plans in Projects
- › 2.5 Monitor and Review Risks in Solar Projects
- › 2.6 Communicate Risk Management Best Practices to Teams

• 3 Leadership Roles in Safety Culture Development — 6 classes

- › 3.1 Define Leadership Roles in Safety Culture Development
- › 3.2 Identify Key Characteristics of Effective Safety Leaders
- › 3.3 Explore Strategies for Fostering a Positive Safety Culture
- › 3.4 Assess the Impact of Leadership on Safety Outcomes
- › 3.5 Develop Action Plans for Enhancing Safety Leadership Practices
- › 3.6 Evaluate Leadership Effectiveness in Safety Management

• 4 Implementing Safety Protocols and Best Practices — 6 classes

- › 4.1 Identify Key Safety Protocols in PV Module Management
- › 4.2 Evaluate Current Safety Practices in Your Organization
- › 4.3 Develop a Safety Management Plan for PV Module Operations
- › 4.4 Train Staff on Implementing Safety Protocols Effectively
- › 4.5 Monitor and Assess Safety Protocol Compliance Regularly
- › 4.6 Review and Improve Best Practices for Ongoing Safety Management

• 5 Evaluating and Improving Safety Performance in Solar Projects —

6 classes

- › 5.1 Assessing Safety Performance Metrics in Solar Projects
- › 5.2 Identifying Key Risk Factors in Solar Module Safety
- › 5.3 Implementing Effective Safety Management Strategies
- › 5.4 Conducting Safety Audits and Inspections
- › 5.5 Engaging Stakeholders in Safety Improvement Initiatives
- › 5.6 Developing Continuous Improvement Plans for Safety Practices

• 1 Understanding ISO 61730: Framework and Requirements — 6

classes

- › 1.1 Identify Key Components of ISO 61730 Framework
- › 1.2 Analyze Safety Requirements for PV Modules
- › 1.3 Examine Risk Assessment Procedures in PV Module Safety
- › 1.4 Discuss Compliance Testing Methods for ISO 61730
- › 1.5 Evaluate Case Studies of ISO 61730 Implementation
- › 1.6 Develop Action Plans for Ensuring Compliance with ISO 61730

• 2 Risk Assessment and Safety Analysis in PV Modules — 6 classes

- › 2.1 Identify Key Safety Standards in PV Module Design
- › 2.2 Analyze Common Risks Associated with PV Modules
- › 2.3 Conduct a Preliminary Risk Assessment for PV Modules
- › 2.4 Evaluate the Effectiveness of Existing Safety Measures
- › 2.5 Develop Recommendations for Mitigating Risks in PV Modules
- › 2.6 Create a Comprehensive Safety Analysis Report for PV Modules

• 3 Testing Methods for Compliance with Safety Standards — 6 classes

- › 3.1 Identify Key Testing Methods for PV Module Safety
- › 3.2 Explore the ISO 61730 Compliance Framework
- › 3.3 Demonstrate Safety Testing Protocols for PV Modules
- › 3.4 Analyze Results from Safety Testing Procedures
- › 3.5 Evaluate Compliance with ISO Standards in Real-World Scenarios
- › 3.6 Implement Best Practices for Continuous Safety Testing

• 4 Implementation of Safety Standards in PV Module Production — 6

classes

- › 4.1 Identify Key ISO 61730 Safety Standards for PV Modules
- › 4.2 Assess the Role of Certification in PV Module Production
- › 4.3 Outline Safety Risks in PV Module Manufacturing Processes
- › 4.4 Develop a Safety Compliance Checklist for PV Production
- › 4.5 Implement Quality Control Measures to Uphold Safety Standards
- › 4.6 Evaluate Case Studies on Successful Safety Standard Implementation

• 5 Continuous Improvement and Risk Mitigation in PV Systems — 6

classes

- › 5.1 Analyze Historical Incidents in PV Systems
- › 5.2 Identify Key Risk Factors in PV Module Operations
- › 5.3 Implement ISO 61730 Safety Standards for Risk Mitigation
- › 5.4 Develop Continuous Improvement Strategies for PV Safety
- › 5.5 Evaluate the Effectiveness of Safety Protocols in Practice
- › 5.6 Create a Comprehensive Risk Management Plan for PV Systems

• 1 Understanding ISO 61730 Requirements and Standards — 6 classes

- › 1.1 Identify Key ISO 61730 Standards for PV Modules
- › 1.2 Explain the Importance of PV Module Safety in Certification
- › 1.3 Analyze Requirements for Quality and Performance in ISO 61730
- › 1.4 Develop Documentation for ISO 61730 Compliance
- › 1.5 Assess the Implications of Non-compliance with ISO Standards
- › 1.6 Create a Reporting Framework for ISO 61730 Certification Processes

• 2 Critical Documentation Practices in PV Module Safety — 6 classes

- › 2.1 Identify Key Documents for PV Module Safety
- › 2.2 Analyze the Purpose of Each Critical Document
- › 2.3 Understand Documentation Compliance Requirements
- › 2.4 Evaluate Reporting Standards and Procedures
- › 2.5 Implement Effective Documentation Practices
- › 2.6 Create a Sample Documentation Checklist for Compliance

• 3 Data Collection and Reporting Techniques for ISO Compliance — 6 classes

- › 3.1 Identify Key Data Sources for ISO 61730 Compliance
- › 3.2 Collect Accurate Data: Methods and Best Practices
- › 3.3 Analyze Collected Data for Reporting Purposes
- › 3.4 Create Effective Documentation for ISO Reporting
- › 3.5 Implement Data Verification Techniques for Quality Assurance
- › 3.6 Develop Actionable Reporting Strategies for ISO Compliance

• 4 Analyzing and Interpreting Safety Reports — 6 classes

- › 4.1 Identify Key Components of Safety Reports
- › 4.2 Evaluate Safety Report Data for Compliance
- › 4.3 Interpret Risk Assessments in Safety Reports
- › 4.4 Analyze Trends in Safety Reporting
- › 4.5 Compare International Safety Standards and Reporting Practices
- › 4.6 Develop Summary Documentation from Safety Reports

• 5 Preparation for ISO 61730 Certification Audits — 6 classes

- › 5.1 Identify Key Requirements for ISO 61730 Certification
- › 5.2 Analyze Documentation Needs for Certification Preparation
- › 5.3 Develop a Checklist for ISO 61730 Audit Readiness
- › 5.4 Review Common Audit Issues and Solutions
- › 5.5 Simulate an ISO 61730 Audit Scenario for Practice
- › 5.6 Create an Action Plan for Continuous Compliance Improvement

• 1 Understanding Risk Assessment in PV Modules — 6 classes

- › 1.1 Define Risk Assessment in PV Module Safety
- › 1.2 Identify Key Components of Risk in PV Systems
- › 1.3 Analyze Potential Hazards in PV Module Operations
- › 1.4 Evaluate Risk Levels Associated with PV Modules
- › 1.5 Implement Risk Mitigation Strategies for PV Modules
- › 1.6 Review Case Studies on Risk Management in PV Deployments

• 2 Identifying Hazards in PV Module Production and Installation — 6 classes

- › 2.1 Identify Common Hazards in PV Module Production
- › 2.2 Analyze Risks Associated with PV Module Installation
- › 2.3 Evaluate Safety Standards in PV Module Production
- › 2.4 Develop a Hazard Checklist for PV Module Activities
- › 2.5 Implement Control Measures for Identified Hazards
- › 2.6 Review Case Studies on PV Module Safety Incidents

• 3 Analyzing Risk Factors Associated with PV Modules — 6 classes

- › 3.1 Identify Key Risk Factors in PV Module Operations
- › 3.2 Evaluate Environmental Impacts on PV Module Safety
- › 3.3 Analyze Historical Data on PV Module Failures
- › 3.4 Assess Manufacturing Quality Control Measures
- › 3.5 Develop Risk Mitigation Strategies for PV Modules
- › 3.6 Implement a Comprehensive Risk Management Plan for PV Modules

• 4 Implementing Risk Management Strategies for PV Safety — 6 classes

- › 4.1 Identify Key Risks in PV Module Safety
- › 4.2 Analyze Risk Impact and Likelihood in PV Operations
- › 4.3 Develop Mitigation Strategies for Identified Risks
- › 4.4 Implement Effective Monitoring Techniques for Risk Management
- › 4.5 Create a Risk Communication Plan for Stakeholders
- › 4.6 Evaluate and Review Risk Management Strategies for Continuous Improvement

• 5 Monitoring and Reviewing Risk Management Processes in PV Systems — 6 classes

- › 5.1 Identify Common Risks in PV Systems
- › 5.2 Evaluate Existing Risk Management Processes
- › 5.3 Analyze the Effectiveness of Current Monitoring Techniques
- › 5.4 Develop Strategies for Risk Mitigation in PV Systems
- › 5.5 Implement a Review Process for Ongoing Risk Assessment
- › 5.6 Communicate Risk Findings to Stakeholders Effectively

• 1 Understanding PV Module Safety Standards and Compliance — 6 classes

- › 1.1 Identify Key PV Module Safety Standards
- › 1.2 Explain the Importance of Compliance in PV Installations
- › 1.3 Examine Common Safety Hazards in PV Modules
- › 1.4 Discuss Best Practices for PV Module Installation Safety
- › 1.5 Illustrate the Testing and Certification Process for PV Modules
- › 1.6 Apply Safety Protocols in Real-World PV Module Scenarios

• 2 Identifying Hazards in PV Module Installation and Operation — 6 classes

- › 2.1 Identify Common Hazards in PV Module Installation
- › 2.2 Assess Risks Associated with Electrical Components
- › 2.3 Evaluate Physical Hazards During PV Module Handling
- › 2.4 Recognize Environmental Hazards in PV Installation Sites
- › 2.5 Apply Safety Protocols for Hazard Mitigation
- › 2.6 Develop an Emergency Response Plan for PV Module Incidents

• 3 Implementing Safety Protocols During PV Module Installation — 6 classes

- › 3.1 Identify Safety Hazards in PV Module Installation
- › 3.2 Understand Personal Protective Equipment (PPE) Requirements
- › 3.3 Implement Safe Lifting Techniques and Equipment
- › 3.4 Follow Electrical Safety Protocols During Installation
- › 3.5 Conduct a Risk Assessment Before Installation
- › 3.6 Review and Report Safety Incidents Post-Installation

• 4 Emergency Response and Risk Management for PV Systems — 6 classes

- › 4.1 Identify Potential Emergency Scenarios in PV Systems
- › 4.2 Assess Risk Levels Associated with PV System Operations
- › 4.3 Develop Effective Emergency Response Plans for PV Incidents
- › 4.4 Implement Safety Protocols for Emergency Situations in PV Systems
- › 4.5 Conduct Training Simulations for Emergency Response in PV Settings
- › 4.6 Evaluate and Improve Emergency Response Strategies for PV Safety

• 5 Continuous Safety Improvement and Compliance Audits in PV Operations — 6 classes

- › 5.1 Identify Key Safety Metrics for PV Operations
- › 5.2 Analyze Compliance Requirements for ISO 61730 Certification
- › 5.3 Develop a Continuous Safety Improvement Plan
- › 5.4 Conduct Effective Safety Audits in PV Environments
- › 5.5 Implement Corrective Actions Post-Audits
- › 5.6 Evaluate the Impact of Safety Protocols on PV Performance