LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 9241OCS — Ergonomics of Human-System Interaction

ISO Certification Programme

LAPT — London Academy of Professional Training

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Reference SSR-OCS-9241OCS • ISO Security Safety & Risk

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

AT A GLANCE

REFERENCE	**SSR-OCS-9241OCS**
AWARD	**Certificate**
ASSESSMENT	**430 marks — 258 to pass (60%)**
PREREQUISITES	**None**
VALIDITY	**Lifetime**
AWARDING BODY	**LAPT — London Academy of Professional Training**

CURRICULUM

1 Case Studies and Best Practices

5 chapters · 30 classes · **65 marks**

- **1 Analyzing Human-System Interaction Case Studies** — 6 classes
  - 1.1 Identify Key Principles of Human-System Interaction
  - 1.2 Evaluate Case Studies in Ergonomics
  - 1.3 Analyze User Experience Issues in Case Studies
  - 1.4 Compare Best Practices in Human-System Design
  - 1.5 Synthesize Findings from Case Studies to Improve Systems
  - 1.6 Apply Lessons Learned to Develop Ergonomic Solutions
- **2 Identifying Best Practices in Ergonomic Design** — 6 classes
  - 2.1 Explore Key Ergonomic Principles for Effective Design
  - 2.2 Analyze Case Studies on Successful Ergonomic Implementations
  - 2.3 Evaluate User Feedback in Ergonomic Design Processes
  - 2.4 Identify Common Pitfalls in Ergonomic Design Practices
  - 2.5 Develop a Checklist for Assessing Ergonomic Solutions
  - 2.6 Present Innovative Approaches to Enhance Ergonomic Design
- **3 Risk Assessment in Ergonomic Evaluations** — 6 classes
  - 3.1 Identify Key Ergonomic Risk Factors in Human-System Interaction
  - 3.2 Analyze Case Studies on Ergonomic Failures and Successes
  - 3.3 Conduct a Basic Risk Assessment of a Human-System Interface
  - 3.4 Evaluate the Effectiveness of Different Ergonomic Solutions
  - 3.5 Develop an Action Plan Based on Ergonomic Risk Findings
  - 3.6 Present Best Practices for Continuous Ergonomic Improvements
- **4 Implementation of Ergonomic Solutions in Organizations** — 6 classes
  - 4.1 Assess Current Ergonomic Practices in Your Organization
  - 4.2 Identify Key Areas for Ergonomic Improvement
  - 4.3 Develop a Strategic Plan for Ergonomic Solutions Implementation
  - 4.4 Engage Stakeholders in the Ergonomic Change Process
  - 4.5 Evaluate the Impact of Implemented Ergonomic Solutions
  - 4.6 Share Best Practices and Continuous Improvement in Ergonomics
- **5 Evaluating the Impact of Ergonomics on Safety and Performance** — 6 classes
  - 5.1 Identify Key Ergonomic Principles Affecting Safety
  - 5.2 Assess the Relationship Between Ergonomics and Performance
  - 5.3 Analyze Case Studies Demonstrating Ergonomic Impact on Safety
  - 5.4 Evaluate Best Practices for Ergonomic Implementation
  - 5.5 Develop Metrics for Measuring Ergonomic Effectiveness
  - 5.6 Create an Action Plan for Ergonomic Improvements in the Workplace

2 Ergonomic Design Strategies

5 chapters · 30 classes **65 marks**

- **1 Understanding Ergonomics and Human-System Interaction** — 6 classes
  - 1.1 Define Ergonomics and Its Importance in Human-System Interaction
  - 1.2 Identify Key Principles of Ergonomic Design
  - 1.3 Analyze Human Capabilities and Limitations in System Interaction
  - 1.4 Evaluate the Impact of Poor Ergonomic Design on User Performance
  - 1.5 Develop Ergonomic Design Solutions for Common User Scenarios
  - 1.6 Implement User-Centered Design Practices in Ergonomic Projects
- **2 Assessing User Needs and Contextual Factors** — 6 classes
  - 2.1 Identify Key User Needs for Effective Ergonomic Design
  - 2.2 Analyze Contextual Factors Influencing User Interaction
  - 2.3 Evaluate Existing Ergonomic Interfaces Against User Profiles
  - 2.4 Conduct User Surveys to Gather Feedback on Usability
  - 2.5 Develop User Personas to Inform Design Strategies
  - 2.6 Integrate Findings to Create User-Centric Design Solutions
- **3 Designing for Comfort and Usability** — 6 classes
  - 3.1 Analyze User Needs for Comfortable Interfaces
  - 3.2 Identify Key Principles of Ergonomic Design
  - 3.3 Evaluate Comfort Factors in Product Design
  - 3.4 Implement Usability Testing for Ergonomics
  - 3.5 Develop Strategies for Enhancing User Comfort
  - 3.6 Create a Design Prototype Focused on Usability
- **4 Evaluating Ergonomic Solutions and Performance** — 6 classes
  - 4.1 Assess Current Ergonomic Solutions in Practice
  - 4.2 Identify Key Performance Indicators for Ergonomic Evaluation
  - 4.3 Conduct User Feedback Sessions on Ergonomic Designs
  - 4.4 Analyze Ergonomic Testing Methods and Their Outcomes
  - 4.5 Compare Ergonomic Solutions Using Case Studies
  - 4.6 Develop Action Plans for Implementing Ergonomic Improvements
- **5 Implementing Ergonomic Strategies in Occupational Settings** — 6 classes
  - 5.1 Assessing Workplace Ergonomics: Identifying Key Challenges
  - 5.2 Understanding Human Factors: Principles of Ergonomic Design
  - 5.3 Applying Ergonomic Principles: Designing Effective Workspaces
  - 5.4 Selecting Tools and Equipment: Enhancing Ergonomic Efficiency
  - 5.5 Implementing Ergonomic Training: Strategies for Employee Engagement
  - 5.6 Evaluating Ergonomic Interventions: Measuring Impact and Success

3 Ergonomic Principles in Human-System Interaction

5 chapters · 30 classes **85 marks**

- **1 Foundations of Ergonomics in Human-System Interaction** — 6 classes
  - 1.1 Define Ergonomics and Its Importance in Human-System Interaction
  - 1.2 Identify Key Ergonomic Principles Guiding System Design
  - 1.3 Analyze Human Capabilities and Limitations in System Interaction
  - 1.4 Evaluate the Impact of Environmental Factors on User Experience
  - 1.5 Apply Ergonomic Principles to Real-World Human-System Scenarios
  - 1.6 Develop Strategies for Enhancing User-Centric System Design
- **2 Understanding User Needs and Contexts** — 6 classes
  - 2.1 Analyze User Scenarios and Contexts
  - 2.2 Identify Key User Needs and Requirements
  - 2.3 Explore Cognitive Models of User Interaction
  - 2.4 Assess Environmental Factors in User Experience
  - 2.5 Develop User Personas for Enhanced Design
  - 2.6 Apply Ergonomic Principles to Real-World Situations
- **3 Designing for Usability and Safety** — 6 classes
  - 3.1 Analyze User Needs for Effective System Design
  - 3.2 Identify Key Ergonomic Principles Affecting Usability
  - 3.3 Evaluate Interface Design for Safety and Efficiency
  - 3.4 Apply Usability Testing Methods to Prototype Systems
  - 3.5 Integrate User Feedback to Enhance Safety Features
  - 3.6 Develop a Comprehensive Usability and Safety Checklist
- **4 Evaluating Ergonomic Solutions** — 6 classes
  - 4.1 Identify Key Ergonomic Factors in Human-System Interaction
  - 4.2 Analyze Current Ergonomic Solutions in Real-World Applications
  - 4.3 Evaluate User Feedback on Ergonomic Design Effectiveness
  - 4.4 Compare Ergonomic Solutions Based on Usability Testing
  - 4.5 Recommend Improvements for Ergonomic Design Systems
  - 4.6 Present Findings on Ergonomic Solutions in Team Discussions
- **5 Implementing Ergonomic Strategies in the Workplace** — 6 classes
  - 5.1 Assessing Workplace Ergonomics: Identify Key Risk Factors
  - 5.2 Understanding User Needs: Conducting Effective Surveys
  - 5.3 Designing Ergonomic Workspaces: Principles and Best Practices
  - 5.4 Implementing Ergonomic Tools: Selection and Integration
  - 5.5 Training Employees on Ergonomics: Creating an Engaging Program
  - 5.6 Evaluating Ergonomic Changes: Measuring Impact and Effectiveness

4 Evaluating Ergonomic Interventions

5 chapters · 30 classes **65 marks**

- **1 Introduction to Ergonomics in Human-System Interaction** — 6 classes
  - 1.1 Define Key Concepts in Ergonomics and Human-System Interaction
  - 1.2 Identify the Importance of Ergonomics in System Design
  - 1.3 Analyze User Needs and Task Requirements for Ergonomic Solutions
  - 1.4 Explore Common Ergonomic Principles in Human-System Interaction
  - 1.5 Evaluate Case Studies of Ergonomic Interventions in Practice
  - 1.6 Develop a Plan for Implementing Ergonomic Improvements in Systems
- **2 Identifying and Assessing Ergonomic Risks** — 6 classes
  - 2.1 Define Ergonomic Risks in Human-System Interaction
  - 2.2 Identify Common Ergonomic Issues in Work Environments
  - 2.3 Analyze the Impact of Ergonomic Risks on Performance and Health
  - 2.4 Assessing Ergonomic Risks: Tools and Methods
  - 2.5 Prioritizing Ergonomic Risks for Effective Interventions
  - 2.6 Develop Action Plans to Mitigate Identified Ergonomic Risks
- **3 Designing Effective Ergonomic Interventions** — 6 classes
  - 3.1 Identify Key Ergonomic Principles for Intervention Design
  - 3.2 Assess Existing Workplaces for Ergonomic Effectiveness
  - 3.3 Develop Targeted Ergonomic Solutions Based on Assessment
  - 3.4 Integrate User Feedback into Ergonomic Intervention Design
  - 3.5 Implement and Communicate Ergonomic Changes to Stakeholders
  - 3.6 Evaluate the Impact of Ergonomic Interventions on Performance
- **4 Evaluating the Impact of Ergonomic Interventions** — 6 classes
  - 4.1 Define Key Metrics for Evaluating Ergonomic Interventions
  - 4.2 Identify Methods for Collecting Ergonomic Impact Data
  - 4.3 Analyze Data Trends from Ergonomic Assessments
  - 4.4 Assess User Feedback on Ergonomic Solutions
  - 4.5 Compare Pre- and Post-Intervention Performance Metrics
  - 4.6 Develop Recommendations Based on Evaluation Findings
- **5 Sustaining Ergonomic Changes: Leadership and Management Strategies** — 6 classes
  - 5.1 Analyze Current Ergonomic Practices in the Workplace
  - 5.2 Identify Leadership Roles in Sustaining Ergonomic Changes
  - 5.3 Design a Communication Plan for Ergonomic Strategies
  - 5.4 Develop Training Programs to Enhance Ergonomic Awareness
  - 5.5 Implement Feedback Mechanisms for Continuous Improvement
  - 5.6 Evaluate the Impact of Ergonomic Interventions on Employee Well-being

5 Leadership in Ergonomics

5 chapters · 30 classes **65 marks**

- **1 Understanding Ergonomics in Human-System Interaction** — 6 classes
  - 1.1 Define Ergonomics and Its Importance in Human-System Interaction
  - 1.2 Identify Key Principles of Ergonomics in Design
  - 1.3 Analyze Human Factors Influencing System Interaction
  - 1.4 Evaluate Ergonomic Challenges in User Experience
  - 1.5 Implement Best Practices for Ergonomic Solutions
  - 1.6 Develop a Leadership Strategy for Promoting Ergonomics
- **2 Identifying Human Factors in Leadership Roles** — 6 classes
  - 2.1 Analyze the Role of Human Factors in Leadership Effectiveness
  - 2.2 Evaluate Communication Styles and Their Impact on Team Dynamics
  - 2.3 Identify Cognitive Biases That Affect Leadership Decision-Making
  - 2.4 Assess Work Environment Design for Optimizing Leader Engagement
  - 2.5 Develop Strategies for Enhancing Team Collaboration Through Ergonomics
  - 2.6 Implement Action Plans to Address Human Factors in Leadership Practices
- **3 Developing Ergonomic Leadership Strategies** — 6 classes
  - 3.1 Assess Organizational Needs for Ergonomic Leadership
  - 3.2 Identify Key Principles of Ergonomics in Leadership
  - 3.3 Develop Communication Strategies for Ergonomic Initiatives
  - 3.4 Foster a Culture of Ergonomic Awareness and Engagement
  - 3.5 Implement Effective Ergonomic Evaluation Methods
  - 3.6 Create an Action Plan for Sustaining Ergonomic Leadership
- **4 Assessing Risks and Safety Measures in Ergonomics** — 6 classes
  - 4.1 Identify Ergonomic Risks in Work Environments
  - 4.2 Analyze Common Safety Measures for Ergonomic Issues
  - 4.3 Evaluate the Impact of Poor Ergonomics on Employee Health
  - 4.4 Develop a Risk Assessment Framework for Ergonomic Evaluation
  - 4.5 Create Action Plans to Mitigate Ergonomic Risks
  - 4.6 Present Case Studies on Successful Ergonomic Interventions
- **5 Evaluating the Impact of Ergonomic Leadership on Organizational Culture** — 6 classes
  - 5.1 Define Ergonomic Leadership and Its Importance in Organizations
  - 5.2 Analyze the Components of Organizational Culture Affected by Ergonomics
  - 5.3 Examine Case Studies of Successful Ergonomic Leadership Implementation
  - 5.4 Identify Key Metrics for Evaluating Ergonomic Leadership Impact
  - 5.5 Develop Strategies to Foster an Ergonomic-Centric Culture
  - 5.6 Create an Action Plan for Assessing Your Organization's Ergonomic Leadership

6 Risk Assessment and Management

5 chapters · 30 classes **85 marks**

- **1 Fundamentals of Risk Assessment in Occupational Safety** — 6 classes
  - 1.1 Define Key Concepts in Risk Assessment
  - 1.2 Identify Common Hazards in Occupational Settings
  - 1.3 Analyze Risk Factors Affecting Safety
  - 1.4 Evaluate Risk Assessment Techniques and Tools
  - 1.5 Develop a Comprehensive Risk Assessment Plan
  - 1.6 Implement Risk Control Measures Effectively
- **2 Identifying and Analyzing Workplace Hazards** — 6 classes
  - 2.1 Define Workplace Hazards and Their Impact on Safety
  - 2.2 Identify Different Types of Workplace Hazards
  - 2.3 Analyze the Risk Associated with Identified Hazards
  - 2.4 Assess Potential Harm and Consequences of Hazards
  - 2.5 Develop Effective Risk Control Measures
  - 2.6 Implement and Monitor Hazard Management Strategies
- **3 Risk Evaluation and Prioritization Strategies** — 6 classes
  - 3.1 Identify Key Risk Factors in Human-System Interaction
  - 3.2 Analyze the Impact of Risks on User Experience
  - 3.3 Develop a Risk Evaluation Matrix for Prioritization
  - 3.4 Assess Risk Tolerances in Ergonomic Design
  - 3.5 Create Action Plans for High-Priority Risks
  - 3.6 Implement Continuous Monitoring Strategies for Risk Management
- **4 Developing Risk Control Measures and Action Plans** — 6 classes
  - 4.1 Identify Hazards in Human-System Interaction
  - 4.2 Assess Risks Associated with Ergonomic Factors
  - 4.3 Develop Control Measures for Identified Risks
  - 4.4 Establish Priorities for Action Planning
  - 4.5 Create Effective Action Plans for Risk Management
  - 4.6 Review and Adapt Risk Control Measures Regularly
- **5 Monitoring and Reviewing Risk Management Practices** — 6 classes
  - 5.1 Identify Key Performance Indicators for Risk Management
  - 5.2 Establish a Baseline for Monitoring Risk Management Practices
  - 5.3 Conduct Qualitative Assessments of Current Risk Management Strategies
  - 5.4 Analyze Data Trends to Evaluate Risk Management Effectiveness
  - 5.5 Develop a Review Framework for Continuous Risk Assessment
  - 5.6 Implement Feedback Mechanisms for Improving Risk Practices