LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

Master Certificate in Data Governance & Business Intelligence

Leadership Level

LAPT — London Academy of Professional Training

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Reference IT-DSA-L • IT Centres

UKPRN 10067351 • Registered in England and Wales, company 4984798

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

AT A GLANCE

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

CURRICULUM

1 Advanced Data Governance

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

• 1 Fundamentals of Data Governance Frameworks — 6 classes

- › 1.1 Understanding the Core Components of Data Governance
- › 1.2 Exploring Data Roles and Responsibilities
- › 1.3 Integrating Data Policies into Business Processes
- › 1.4 Evaluating Data Governance Maturity Models
- › 1.5 Implementing Key Performance Indicators for Governance
- › 1.6 Case Studies: Successful Data Governance Frameworks

• 2 Regulatory Compliance and Ethical Considerations in Data Management — 6 classes

- › 2.1 Understanding Regulatory Frameworks in Data Management
- › 2.2 Identifying Key Compliance Requirements for Data Governance
- › 2.3 Exploring Ethical Considerations in Handling Sensitive Data
- › 2.4 Implementing Data Protection Measures and Best Practices
- › 2.5 Assessing the Risks and Challenges of Data Non-Compliance
- › 2.6 Developing Strategies for Ethical Data Use and Compliance

• 3 Data Quality Management and Metadata Strategies — 6 classes

- › 3.1 Understanding Data Quality and Its Impact on Business Decisions
- › 3.2 Identifying and Defining Data Quality Dimensions
- › 3.3 Implementing Data Quality Assessment Techniques
- › 3.4 Exploring Metadata and Its Role in Data Governance
- › 3.5 Designing Effective Metadata Management Strategies
- › 3.6 Applying Best Practices for Sustaining Data Quality

• 4 Data Stewardship and Organizational Roles in Governance — 6 classes

- › 4.1 Understanding Data Stewardship Roles and Responsibilities
- › 4.2 Exploring the Intersection of Data Governance and Business Operations
- › 4.3 Identifying Key Organizational Roles in Data Governance
- › 4.4 Developing Effective Communication Strategies for Data Stewards
- › 4.5 Implementing Data Stewardship Frameworks in Business Environments
- › 4.6 Evaluating the Impact of Organizational Roles on Data Governance Success

• 5 Implementing Data Governance in Business Intelligence Systems — 6 classes

- › 5.1 Exploring the Role of Data Governance in BI Systems
- › 5.2 Identifying Key Stakeholders and Their Responsibilities
- › 5.3 Establishing Data Governance Frameworks for BI
- › 5.4 Integrating Data Quality Processes in Business Intelligence
- › 5.5 Implementing Data Privacy and Compliance in BI Systems
- › 5.6 Evaluating Success and Continuous Improvement in Data Governance

2 Data Quality Management

5 chapters · 30 classes **65 marks**

- **1 Understanding Data Quality Concepts and Dimensions** — 6 classes
  - 1.1 Introduction to Data Quality: Defining Key Concepts
  - 1.2 Exploring Data Quality Dimensions: Framework and Importance
  - 1.3 Analyzing Accuracy and Completeness: Core Data Quality Metrics
  - 1.4 Evaluating Consistency and Timeliness: Ensuring Reliable Data
  - 1.5 Assessing Validity and Uniqueness: Overcoming Common Challenges
  - 1.6 Applying Data Quality Principles: Case Studies and Best Practices
- **2 Developing Data Quality Frameworks and Strategies** — 6 classes
  - 2.1 Understanding Data Quality: Key Concepts and Importance
  - 2.2 Identifying Data Quality Dimensions and Indicators
  - 2.3 Designing a Data Quality Framework: Essential Components
  - 2.4 Implementing Data Quality Strategies: Best Practices
  - 2.5 Monitoring and Measuring Data Quality: Tools and Techniques
  - 2.6 Enhancing Data Quality: Continuous Improvement Approaches
- **3 Data Profiling and Cleansing Techniques** — 6 classes
  - 3.1 Understanding Data Profiling Basics
  - 3.2 Identifying Data Patterns and Anomalies
  - 3.3 Exploring Data Cleansing Techniques
  - 3.4 Applying Data Transformation Methods
  - 3.5 Ensuring Data Integrity and Consistency
  - 3.6 Implementing Effective Data Quality Solutions
- **4 Data Quality Metrics and Improvement Plans** — 6 classes
  - 4.1 Understanding Data Quality Metrics: An Overview
  - 4.2 Identifying Key Metrics: Ensuring Data Reliability
  - 4.3 Measuring Data Accuracy: Techniques and Tools
  - 4.4 Evaluating Completeness and Consistency in Data Sets
  - 4.5 Developing Effective Data Quality Improvement Plans
  - 4.6 Implementing and Monitoring Data Quality Interventions
- **5 Leveraging Technology and Tools for Data Quality Management** — 6 classes
  - 5.1 Understanding Data Quality Tools and Technologies
  - 5.2 Exploring Data Profiling Techniques
  - 5.3 Implementing Data Cleansing Processes
  - 5.4 Automating Data Quality Monitoring
  - 5.5 Integrating Data Quality Tools with Business Intelligence Systems
  - 5.6 Evaluating and Selecting Data Quality Solutions

3 Emerging Technologies

5 chapters · 30 classes **65 marks**

- **1 Foundational Concepts in Emerging Technologies** — 6 classes
  - 1.1 Understanding Emerging Technologies: An Introduction
  - 1.2 Analyzing Key Characteristics of Emerging Technologies
  - 1.3 Exploring Disruptive Innovations in Emerging Tech
  - 1.4 Assessing the Impact of Emerging Technologies on Business
  - 1.5 Evaluating Ethical Considerations in Emerging Technologies
  - 1.6 Applying Emerging Technologies to Business Intelligence Strategies
- **2 Technological Innovations Shaping Data Governance** — 6 classes
  - 2.1 Exploring Key Technological Innovations in Data Governance
  - 2.2 Understanding Blockchain's Role in Data Integrity
  - 2.3 Utilizing Artificial Intelligence for Improved Data Analysis
  - 2.4 Assessing the Impact of Cloud Computing on Data Management
  - 2.5 Leveraging the Internet of Things for Enhanced Data Collection
  - 2.6 Implementing Machine Learning in Business Intelligence Processes
- **3 Artificial Intelligence in Business Intelligence** — 6 classes
  - 3.1 Understanding the Role of AI in Business Intelligence
  - 3.2 Exploring AI Techniques for Data Analysis
  - 3.3 Integrating AI with BI Tools
  - 3.4 Enhancing Data Visualization with AI
  - 3.5 Leveraging AI for Predictive Analytics in BI
  - 3.6 Implementing AI-Driven Decision Support Systems
- **4 Ethical and Legal Considerations of Emerging Technologies** — 6 classes
  - 4.1 Understanding Ethical Frameworks for Emerging Technologies
  - 4.2 Exploring Legal Challenges in New Tech Development
  - 4.3 Analyzing Privacy Concerns in Emerging Technologies
  - 4.4 Evaluating the Impact of AI on Ethical Decision-Making
  - 4.5 Assessing Regulatory Approaches to Digital Innovations
  - 4.6 Applying Ethical Guidelines to Tech Implementation
- **5 Case Studies and Future Directions in Emerging Technologies** — 6 classes
  - 5.1 Exploring Breakthrough Technologies in Business
  - 5.2 Analyzing Real-World Case Studies of AI Integration
  - 5.3 Identifying Key Challenges in Blockchain Adoption
  - 5.4 Assessing the Impact of IoT on Business Operations
  - 5.5 Predicting Future Trends in Emerging Technologies
  - 5.6 Developing Strategic Roadmaps for Technology Evolution

4 Leadership in IT

5 chapters · 30 classes **65 marks**

• 1 Foundations of Leadership in IT: Building Effective Teams — 6 classes

- 1.1 Understanding Leadership Styles in IT Teams
- 1.2 Recognizing and Developing Key IT Team Roles
- 1.3 Fostering Communication and Collaboration in IT Environments
- 1.4 Building Trust and Accountability within IT Teams
- 1.5 Leveraging Diversity and Inclusion for Team Innovation
- 1.6 Implementing Strategies for Effective Team Performance

• 2 Navigating Change: Leadership in Rapidly Evolving IT Environments — 6 classes

- 2.1 Understanding the Dynamics of Change in IT
- 2.2 Analyzing the Impact of Technological Advancements on Leadership
- 2.3 Adapting Leadership Styles for Agile IT Environments
- 2.4 Fostering a Culture of Innovation and Flexibility
- 2.5 Communicating Change Effectively in Technical Teams
- 2.6 Implementing Strategies for Sustainable Change Leadership

• 3 Data-Driven Decision Making: Enhancing Leadership with BI Tools — 6 classes

- 3.1 Understanding BI Tools in Leadership
- 3.2 Exploring Data-Driven Decision Making
- 3.3 Identifying Key Metrics for Decision Making
- 3.4 Leveraging Data Analysis for Strategic Leadership
- 3.5 Integrating Business Intelligence with Leadership Practices
- 3.6 Applying Data-Driven Insights to Enhance Leadership Outcomes

• 4 Ethical Leadership in Data-Intensive IT Projects — 6 classes

- 4.1 Understanding Ethical Challenges in Data Projects
- 4.2 Identifying Stakeholder Roles and Responsibilities
- 4.3 Exploring Frameworks for Ethical Decision-Making
- 4.4 Analyzing Case Studies of Ethical Leadership in IT
- 4.5 Implementing Ethical Practices in Data Governance
- 4.6 Cultivating a Culture of Ethical Leadership in IT Teams

• 5 Strategic Leadership: Driving Organizational Success Through Data Governance Initiatives — 6 classes

- 5.1 Understanding the Role of Strategic Leadership in IT
- 5.2 Identifying Key Components of Data Governance Initiatives
- 5.3 Exploring Strategic Leadership Skills for Data-Driven Success
- 5.4 Analyzing Effective Data Governance Frameworks
- 5.5 Integrating Leadership Practices to Enhance Data Governance
- 5.6 Applying Strategic Leadership to Drive Organizational Change

5 Organisational Change Management

5 chapters · 30 classes **65 marks**

• 1 Understanding Organisational Change in Data-Driven Environments — 6 classes

- 1.1 Exploring the Need for Change in Data-Driven Organisations
- 1.2 Identifying Key Drivers of Organisational Change in Data Environments
- 1.3 Analyzing Resistance to Change in Data Governance
- 1.4 Mapping Stakeholder Roles in Data-Driven Change Processes
- 1.5 Designing Effective Communication Strategies for Change
- 1.6 Implementing and Monitoring Change Initiatives in Data Governance

• 2 Assessing Organisational Readiness for Data Initiatives — 6 classes

- 2.1 Understanding Organisational Culture for Data Initiatives
- 2.2 Evaluating Current Data Management Practices
- 2.3 Identifying Key Stakeholders and Their Roles
- 2.4 Analyzing Capability Gaps in the Workforce
- 2.5 Assessing Technological Infrastructure Readiness
- 2.6 Developing a Readiness Action Plan

• 3 Strategic Planning for Data Governance Change — 6 classes

- 3.1 Understanding the Need for Strategic Planning in Data Governance
- 3.2 Identifying Key Stakeholders in Data Governance Initiatives
- 3.3 Analyzing Current Data Governance Frameworks
- 3.4 Setting Objectives and Goals for Data Governance Change
- 3.5 Developing a Strategic Roadmap for Data Governance Implementation
- 3.6 Evaluating and Adapting the Data Governance Strategy

• 4 Implementing Change: Best Practices and Tools — 6 classes

- 4.1 Understanding Organisational Change Principles
- 4.2 Assessing Change Readiness in Your Organisation
- 4.3 Designing an Effective Change Management Plan
- 4.4 Communicating Change Effectively Across the Organisation
- 4.5 Managing Stakeholder Engagement and Resistance
- 4.6 Evaluating Change Outcomes Using Key Metrics

• 5 Evaluating and Sustaining Change in Data Governance — 6 classes

- 5.1 Understanding the Principles of Evaluating Change
- 5.2 Identifying Key Metrics for Data Governance Assessment
- 5.3 Analyzing Stakeholder Feedback and Engagement
- 5.4 Applying Continuous Improvement Strategies in Data Governance
- 5.5 Ensuring Long-term Sustainability of Change Initiatives
- 5.6 Leveraging Technology for Sustaining Data Governance Changes

6 Strategic Business Intelligence

5 chapters · 30 classes **85 marks**

1 Understanding the Fundamentals of Strategic Business Intelligence — 6 classes

- 1.1 Defining Strategic Business Intelligence
- 1.2 Exploring the Key Components of Business Intelligence
- 1.3 Analyzing the Role of Data in Strategic Decision Making
- 1.4 Identifying Business Intelligence Tools and Technologies
- 1.5 Examining Case Studies in Successful Business Intelligence
- 1.6 Applying Strategic Insights to Business Scenarios

2 Data Collection and Integration for Business Intelligence — 6 classes

- 2.1 Understanding Data Sources in Business Intelligence
- 2.2 Exploring Data Collection Techniques
- 2.3 Analyzing Challenges in Data Integration
- 2.4 Implementing Data Integration Strategies
- 2.5 Assessing Data Quality for Business Insights
- 2.6 Leveraging Integrated Data for Strategic Decision Making

3 Advanced Data Analytics and Visualization Techniques — 6 classes

- 3.1 Understanding the Role of Advanced Analytics in Business Intelligence
- 3.2 Exploring Key Data Visualization Techniques
- 3.3 Leveraging Predictive Analytics for Strategic Decision Making
- 3.4 Implementing Data Visualization Tools and Software
- 3.5 Analyzing Complex Data Sets Using Machine Learning Algorithms
- 3.6 Integrating Visualization Techniques into Business Intelligence Reports

4 Strategic Implementation of Business Intelligence Systems — 6 classes

- 4.1 Understanding the Core Components of BI Systems
- 4.2 Identifying Business Needs and BI Solutions
- 4.3 Designing a Strategic BI Implementation Plan
- 4.4 Mapping Data Sources for Business Intelligence Integration
- 4.5 Implementing Data Governance Frameworks
- 4.6 Monitoring and Evaluating BI System Performance

5 Governance and Ethical Considerations in Business Intelligence — 6 classes

- 5.1 Exploring Data Governance Principles
- 5.2 Understanding Ethical Considerations in Business Intelligence
- 5.3 Assessing Legal and Compliance Issues in Data Management
- 5.4 Analyzing the Impact of Bias in Business Intelligence
- 5.5 Implementing Data Governance Frameworks Effectively
- 5.6 Evaluating Case Studies on Ethical Data Usage