10-DAY EXECUTIVE EDUCATION PROGRAMME

Enterprise Data, IT, AI & Architecture Governance

THE MANAGERIAL TRACK

Table of Contents & Curriculum Outline

Programme Duration	10 days (instructor-led)
Audience	Managers, team leads, programme managers and senior practitioners (implementation & delivery)
Core Reference	DAMA-DMBOK2 (Revised Edition) — all 11 knowledge areas + context chapters
Governance Frameworks	ISO/IEC 38500 · COBIT 2019 · ITIL 4 · TOGAF · Zachman · ISO/IEC 42001 · NIST AI RMF · EU AI Act

Programme Overview

This track equips managers, team leads and practitioners to design, implement and run the organisation's data, IT, AI and architecture governance. Emphasis is on processes, roles, tools, metrics and applied deliverables. The data management foundation follows the DAMA-DMBOK2 Revised Edition across all eleven knowledge areas and context chapters; the wider governance days apply the leading international frameworks with workshops each day.

The 10 Days at a Glance

Day	Focus	Frameworks / DMBOK Mapping
1	Data Management Foundations, Strategy & Ethics	DMBOK Ch. 1–2
2	Data Governance & the Operating Model	DMBOK Ch. 3, 16, 17
3	Data Architecture & Data Modeling and Design	DMBOK Ch. 4–5
4	Storage & Operations, Security, Integration & Interoperability	DMBOK Ch. 6–8
5	Master & Reference Data, Document/Content & Metadata	DMBOK Ch. 9, 10, 12
6	DW/BI, Data Quality, Big Data/Data Science & Maturity	DMBOK Ch. 11, 13, 14, 15
7	IT Governance	ISO/IEC 38500 · COBIT 2019 · ITIL 4
8	Enterprise Architecture	TOGAF · Zachman
9	AI Governance	ISO/IEC 42001 · NIST AI RMF · EU AI Act
10	Convergence & Capstone — Integrated GRC	Data · IT · AI · EA

Detailed Contents

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Day 1 · Data Management Foundations, Strategy & Ethics

DMBOK2 Revised — Ch. 1 Data Management · Ch. 2 Data Handling Ethics

LEARNING OUTCOMES

1. Explain the DAMA-DMBOK knowledge areas, the DAMA Wheel and how they interrelate.
2. Translate a data strategy into concrete management practices and deliverables.
3. Apply data-handling ethics and privacy requirements in day-to-day operations.

MODULES

1.1 Data Management Essentials

- Data vs information; data as an asset; the data lifecycle
- Data Management Principles and challenges in practice
- The DAMA-DMBOK Framework and the eleven knowledge areas

1.2 Frameworks & Strategy in Practice

- Strategic Alignment Model, Amsterdam Information Model, Aiken Pyramid
- Components of a data strategy: charter, goals, scope, roadmap
- Translating strategy into a programme backlog

1.3 Data Handling Ethics

- Ethical principles, bias and the risks of data misuse
- Privacy and consent in operations; regulatory mapping (GDPR, PDPL)
- Building an ethics-aware data culture

1.4 Tools & Techniques

- Maturity baseline and gap identification
- Stakeholder mapping and RACI for data

Workshop / Applied Deliverable

– Draft a one-page data strategy charter for your organisation
– Map your eleven knowledge areas to current owners and gaps

Day 2 · Data Governance & the Operating Model

DMBOK2 Revised — Ch. 3 Data Governance · Ch. 16 Organization & Roles · Ch. 17 Change Management

LEARNING OUTCOMES

1. Stand up a data governance programme: structures, policies, roles and metrics.
2. Design an operating model and stewardship network fit for the organisation.
3. Apply change management techniques to drive governance adoption.

MODULES

2.1 Building the Governance Programme

- Activities: strategy, issue management, compliance, standards, glossary
- Policies, processes and procedures; governance scorecards
- Tools: glossary, workflow, document management, scorecards

2.2 Operating Models & Stewardship

- Centralised / decentralised / federated / network models
- Roles: CDO, data owners, data stewards, custodians, councils
- Designing RACI and decision rights

2.3 Roles & Organisation Design

- Organisational constructs and reporting lines
- Stewardship onboarding and capability building
- Job expectations and performance measures

2.4 Change Management

- Kotter’s errors; managing the transition, not just the change
- Communication, training and resistance management
- Adoption metrics and reinforcement

Workshop / Applied Deliverable

- Design a data governance operating model and RACI for a sample domain
- Draft a governance scorecard with 5–7 starter metrics

Day 3 · Data Architecture & Data Modeling and Design

DMBOK2 Revised — Ch. 4 Data Architecture · Ch. 5 Data Modeling and Design

LEARNING OUTCOMES

1. Develop and govern enterprise data architecture artefacts.
2. Build and review conceptual, logical and physical data models.
3. Apply modeling standards and design-quality controls.

MODULES

3.1 Data Architecture in Practice

- Enterprise data model, data flow and the architecture artefacts
- Activities: establish, integrate and govern data architecture
- Aligning data architecture to enterprise architecture

3.2 Data Modeling Techniques

- Understanding basics of Conceptual, logical, physical models; relational, dimensional, NoSQL
- Notation schemes; entities, relationships, keys and attributes

3.3 Design Quality & Standards

- Naming conventions and database design best practices
- Reviewing, validating and maintaining models
- Data modeling metrics and model governance

3.4 Tools

- Data modeling, lineage and profiling tools
- Metadata repositories; industry data model patterns

Workshop / Applied Deliverable

- Produce a conceptual model for a chosen business domain
- Run a model review against a naming-convention checklist

Day 4 · Storage & Operations, Security, Integration & Interoperability

DMBOK2 Revised — Ch. 6 Storage & Operations · Ch. 7 Data Security · Ch. 8 Integration & Interoperability

LEARNING OUTCOMES

1. Manage data storage, operations and database administration practices.
2. Implement data security controls, classification and privacy measures.
3. Design data integration and interoperability solutions and patterns.

MODULES

4.1 Data Storage & Operations

- Database technologies; manage database performance and availability
- Backup, recovery, retention and operations activities
- Tools and techniques for data operations

4.2 Data Security

- Define security requirements, policy and standards; classification
- Activities: assess risks, implement controls, audit
- Tools: IAM, encryption/masking, intrusion detection; CRUD matrix

4.3 Integration & Interoperability

- ETL/ELT, CDC, replication, EAI, ESB, APIs and orchestration
- Batch vs real-time; latency and data flow design
- Data sharing agreements, lineage and integration metrics

Workshop / Applied Deliverable

- Build a data classification scheme and a CRUD/access matrix
- Sketch an integration pattern for a source-to-target scenario

Day 5 · Master & Reference Data, Document/Content & Metadata

DMBOK2 Revised — Ch. 10 Reference & Master Data · Ch. 9 Document & Content · Ch. 12 Metadata

LEARNING OUTCOMES

1. Implement master and reference data management and stewardship.
2. Apply document, content and records lifecycle management.
3. Build and govern a metadata capability and business glossary.

MODULES

5.1 Reference & Master Data Management

- MDM concepts: golden record, match/merge, survivorship
- Reference data management and code set governance
- MDM architecture styles; activities and metrics

5.2 Document & Content Management

- Content lifecycle, retention and records management
- ECM tools, controlled vocabularies and taxonomies
- eDiscovery and information governance

5.3 Metadata Management

- Business, technical, operational metadata; architecture types
- Build and maintain a business glossary and metadata repository
- Lineage, impact analysis and metadata governance

Workshop / Applied Deliverable

- Define survivorship rules for a sample golden record
- Draft 10 business glossary terms with owners and definitions

Day 6 · DW/BI, Data Quality, Big Data/Data Science & Maturity

DMBOK2 Revised — Ch. 11 DW/BI · Ch. 13 Data Quality · Ch. 14 Big Data & Data Science · Ch. 15 Maturity

LEARNING OUTCOMES

1. Apply DW/BI architecture and delivery practices.
2. Run a data quality management cycle with dimensions, rules and metrics.
3. Conduct a maturity assessment and build an improvement roadmap.

MODULES

6.1 Data Warehousing & BI

- DW/BI architecture; marts, lakes, lakehouse concepts
- Activities: requirements, build, populate, deliver BI portfolio
- Maintaining data products and BI tooling

6.2 Data Quality Management

- Dimensions: completeness, accuracy, consistency, timeliness, validity
- Profiling, rules, remediation and the DQ improvement cycle
- DQ ISO standard, statistical process control, DQ metrics

6.3 Big Data & Data Science

- Big data concepts, sources, ingestion and the analytics workflow
- Define strategy, choose sources, explore with models, deploy & monitor
- Roles and the data science lifecycle

6.4 Maturity Assessment

- DAMA DMMA framework and selecting a maturity model
- Running an assessment; scoring and benchmarking
- Building the improvement roadmap

Workshop / Applied Deliverable

- Define DQ rules and a scorecard for one critical data element
- Score one knowledge area on the DMMA and identify next steps

Day 7 · IT Governance

ISO/IEC 38500 · COBIT 2019 · ITIL 4 · IT risk & compliance

LEARNING OUTCOMES

1. Apply IT governance frameworks to direct, evaluate and monitor IT.
2. Use COBIT 2019 governance and management objectives in practice.
3. Connect service management and IT risk to governance outcomes.

MODULES

7.1 ISO/IEC 38500 in Practice

- Six principles and the Evaluate–Direct–Monitor model
- Roles, responsibilities and governance vs management
- Applying the model to real IT decisions

7.2 COBIT 2019 Implementation

- Governance system, components and the goals cascade
- EDM / APO / BAI / DSS / MEA objective domains
- Design factors, tailoring and performance management (CMMI-based)

7.3 ITIL 4 & IT Risk

- Service value system, value chain and guiding principles
- Key practices: change enablement, incident, service level management
- IT risk management, controls and compliance mapping

Workshop / Applied Deliverable

- Map 5 COBIT governance/management objectives to your organisation
- Draft an Evaluate–Direct–Monitor cycle for one IT decision

Day 8 · Enterprise Architecture

TOGAF (ADM) · Zachman Framework · EA domains

LEARNING OUTCOMES

1. Apply the TOGAF ADM to develop architecture deliverables.
2. Use the Zachman framework to classify architecture artefacts.
3. Govern architecture and align it with data, IT and AI governance.

MODULES

8.1 EA Frameworks & Methods

- Zachman framework dimensions and classification
- TOGAF structure: ADM phases, deliverables and the content framework

8.2 Architecture Domains & Deliverables

- Business, data, application and technology architecture
- Baseline, target and transition architectures; roadmap
- Architecture repository and building blocks

8.3 Architecture Governance

- Architecture Board, contracts and compliance reviews
- Aligning EA with data architecture (DMBOK Ch. 4) and IT/AI governance
- Managing architecture change and technical debt

Workshop / Applied Deliverable

- Outline the ADM phases for a sample transformation initiative
- Map data architecture artefacts onto the Zachman grid

Day 9 · AI Governance

ISO/IEC 42001 · NIST AI RMF · EU AI Act · OECD/UNESCO principles

LEARNING OUTCOMES

1. Build an AI management system aligned to ISO/IEC 42001.
2. Apply the NIST AI RMF functions to manage AI risk.
3. Operationalise responsible-AI controls across the AI lifecycle.

MODULES

9.1 AI Management System (ISO/IEC 42001)

- AIMS structure, scope, policy and Annex A controls
- AI roles, responsibilities and impact assessments
- Integrating with ISO 27001 / 27701 and data governance

9.2 AI Risk Management (NIST AI RMF)

- Govern, Map, Measure, Manage functions and profiles
- Trustworthy-AI characteristics and measurement
- Bias, robustness, explainability and monitoring

9.3 Regulation & Lifecycle Controls

- EU AI Act risk tiers, obligations and documentation
- OECD/UNESCO principles; mapping global requirements
- AI lifecycle governance, model/data lineage and human oversight

Workshop / Applied Deliverable

- Draft an AI policy and a use-case risk classification
- Map one AI use case through the NIST AI RMF functions

Day 10 · Convergence & Capstone — Integrated GRC

Integrating Data · IT · AI · Enterprise Architecture governance

LEARNING OUTCOMES

1. Integrate the four governance disciplines into one operating model.
2. Design shared roles, controls, metrics and tooling.
3. Produce an integrated, prioritised implementation roadmap.

MODULES

10.1 Mapping the Disciplines Together

- Where data, IT, AI and EA governance overlap and reinforce
- Reusing councils, policies, controls and metadata across domains
- A single control library and policy hierarchy

10.2 The Integrated Operating Model

- Unified RACI, decision rights and escalation paths
- Shared metrics, a combined scorecard and reporting cadence
- Tooling and the metadata/lineage backbone across domains

10.3 Capstone — Build the Roadmap

- Consolidate maturity findings across the four domains
- Prioritise initiatives into a phased 12–24 month roadmap
- Present and defend the integrated plan

Workshop / Applied Deliverable

- Build an integrated governance RACI spanning data, IT, AI and EA
- Produce a one-page phased roadmap with owners and metrics

Assessment & Certification of Completion

- Daily applied workshop deliverables building a working governance portfolio
- A capstone integrated governance roadmap and RACI presented on Day 10
- Optional alignment to different certification pathways (e.g. CDMP)