

Data Stewardship Fundamentals

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DS-01 Data Stewardship Fundamentals

Module 0: About the Course (2 min)

Module 1: Data Stewardship Basics (53 min)

- What is Data Steward?
- What does “Data Stewardship” Mean?
- Why Data Steward?
- Types of Data Steward
 - Overview
 - Type 1: Data Object Data Steward
 - Type 2: Business Unit Data Steward
 - Type 3: Processes Data Steward
 - Type 4: Project / System Data Steward
- Key Reporting Considerations
- Common Examples of Data Stewards
- Not all Data Steward Should be Managed!
- Getting Started
 - Overview
 - Pick the Project
 - Pick the Team
 - Design Standard Forms and Documents
 - Pick the Governance Forums
 - Choose the Metrics
 - Pick the Tools
- Attributes of a Data Steward
 - Profile of a Successful Steward
 - Personal Attributes
 - Knowledge Level
 - Experience Level
- Review

Module 2: Roles and Responsibilities of Data Stewards (45 min)

- Overview
- Data Stewardship and Data Strategy
 - Planning
 - Data Roadmap
 - Data Principles and Policies
 - Adjusting to Business Priorities
 - Example
- Data Stewardship and Data Classification
 - Data Definition
 - Metadata Management
- Data Stewardship and Data Quality



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- Prioritizing Data Quality Metrics
- Prioritizing Data Quality Program
- Data Stewardship and Business Processes
- Data Stewardship and Data Acquisition
- Data Stewardship and Data Modeling
- Data Stewardship and IT Management
 - Overview
 - New Data Projects
 - Consolidating the IT Infrastructure
 - Master Data
 - New Tool Selection
- Data Stewardship and Data Operations
- Data Stewardship and Change Management
- Data Stewardship and Data Governance
- Review

Module 3: Data Stewardship Tips and Techniques (45 min)

- Create a Data Culture
- 10 Keys to Being a Successful Data Steward
- De-railers to Data Stewards
- Case Study 1
 - Overview
 - Company Background
 - Customer Data Steward
 - Reporting Structure and Key Stakeholders
 - Data Steward Team
 - Data Steward Projects
 - Data Steward Governance Forums
 - Challenges
- Case Study 2
 - Overview
 - Company Background
 - Finance Business Unit Data Steward
 - Reporting Structure and Key Stakeholders
 - Data Steward Team
 - Data Steward Projects
 - Data Steward Governance Forums
 - Challenges
- Case Study Lessons
- What Does Great Data Management Look Like?



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Module 4: Information Management Overview (16 min)

- Module Overview
- Information Management Defined
 - Information
 - Management
 - Information + Management
 - A Definition of Information Management
- The Scope of Information Management
 - IM Dimensions
 - IM Disciplines
 - Unrelated Disciplines?
 - Related Disciplines!
 - A Stack View of IM
 - Review - The Scope of Information Management
- Summary - Information Management

Module 5: Data Knowledge (49 min)

- Module Overview
- Data Knowledge Context
 - The What of Data Knowledge: Part 1
 - The What of Data Knowledge: Part 2
 - The Why of Data Knowledge
 - People, Processes, and Technology
- Metadata Management
 - Metadata Defined
 - Kinds of Metadata
 - Metadata Processes
 - Roles of Metadata
 - Metadata Technologies – Creating & Using Metadata
 - Metadata Technologies – Managing Metadata
- Data Modeling
 - Data Modeling Defined: Part 1
 - Data Modeling Defined: Part 2
 - Data Modeling Purpose
 - Levels of Data Models
 - Entity-Relationship Modeling
 - Dimensions of Data Modeling – Logical Model
 - Dimensions of Data Modeling – Physical Model
 - Big Data & Unstructured Data Modeling: Part 1
 - Big Data & Unstructured Data Modeling: Part 2
 - Review - Data Modeling
- Summary – Data Knowledge



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Module 6: Data Governance (51 min)

- Module Overview
- Data Governance Context
 - The What and Why of Data Governance: Part 1
 - The What and Why of Data Governance: Part 2
 - People, Processes, and Technology
 - Data Governance Context
 - Data Governance Framework
 - Data Governance Framework: What is Governed
 - Data Governance Framework: How to Govern
 - Data Governance Framework: Who Governs
 - Data Governance Framework: Leadership & Maturity
 - Data Governance Framework: Interdependence & Collaboration
 - Data Governance Framework Review
- Data Governance Processes & Practices
 - Data Policy Management
 - Policy Making
 - Policy Maintenance
 - Policy Compliance
 - Data Ethics: the Roles of Data Governance
 - Data Ethics: Working with Data
 - Data Ethics: Review
 - Data Ethics as a Multi-Dimensional Challenge
 - Data Ethics: Fostering a Culture of Data Ethics
 - Data Curation: Part 1
 - Data Curation: Part 2
 - Data Cataloging: Part 1
 - Data Catalog
 - Data Cataloging: Part 2
 - Data Policy Management
 - Data Quality Assessment: Part 1
 - Data Quality Assessment: Part 2
 - Data Defect Correction
 - Data Detect Prevention
 - Review - Data Governance Processes & Practices
 - Summary – Data Governance

Module 7: Data Resource Management (28 min)

- Data Resource Management Overview
- The What & Why of Data Resource Management
- Data Resource Management Architecture
- People, Processes, and Technology
- Data Warehousing
- Data Lakes
- Master Data Management
- Data Pipelines



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Module 8: The Data Stewardship Landscape (14 min)

- Overview
- The Scope of Data Stewardship
- Data Stewardship Relationships
- Data Stewardship Roles
- Data Stewardship Goals
- Data Stewardship Competencies
- Data Stewardship Knowledge