



# ***Modernizing Data Governance***

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**Module 0. About the Course (6 min)**

**Module 1. Big Shifts in Data Management (32 min)**

- The World of Legacy BI: Data Integration the Old Way
- Technology Revolution
  - Data Quake
  - The First Wave
  - The Second Wave
- Modern Data Ecosystems
  - More Kinds of Data Stewards
  - Repositioning the Data Warehouse
  - Data Through the Ecosystem
- The World of Modern Analytics
  - New Information Supply Chain
  - More Sources and More Kinds of Data
  - Way and Places to Store Data
  - Ways to Use Data
  - Data Consumers
  - Data Flow and Processing
  - Pipeline Management
  - Way to Deploy
- The Magnitude of Change: How Big the Change Really Is?
  - More Power and More Complexity
  - Challenges for Data Governance

**Module 2. Data Governance Through the Information Supply Chain (29 min)**

- Protection, Utility, and Value
- Raising New Questions
- Data Protection
  - Security
  - Privacy/PII
  - Compliance
- Data Utility
  - Quality
  - Integration
  - Metadata
- Data Value
  - Retention
  - Risk
  - Impact

**Module 3. Technologies and Modern Data Governance (13 min)**

- Technology Across the Ecosystem
- Bringing Data into the Ecosystem
- Curation, Cataloging, and Metadata
- For Analysis-Ready Data
- Data Usage



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- Across the Ecosystem

### **Module 4. People, Processes, and Modern Data Governance (35 min)**

- Changing Governance Practices: The Challenges
- The Tensions
- Rethinking Policy Enforcement
  - Conventional Governance
  - Modern Governance
  - Guides, Guardrails, and Gates
- Rethinking Complexity
  - Conventional Governance
  - Modern Governance
  - Coaching and Collaboration
- Rethinking Process Rights
  - Conventional Governance
  - Modern Governance
- Rethinking Process Rigor
  - Conventional Governance
  - Modern Governance
  - From Controlling to Managing
  - Data Governance as a Service: From Policing to Servicing

### **Module 5. New Challenges in Data Ethics (44 min)**

- The Trouble with Ethics: Ambiguity and Uncertainty
- Ethics Defined: What Does It Mean?
- Governance and Ethics
  - Roles of Data Governance
  - Shaping Data Culture
- Data and Ethics
  - When Working with Data
  - Prediction from 50+ Years Past
  - Collection – Data Monsters?
  - Collection – Shared Accountability?
  - Data Protection – Full and Formal Protections?
  - Data Usage: Individual Rights?
  - Data Usage: Do Privacy Polices Work?
  - Data Usage: Appropriate Use?
  - Ten Hard Questions
  - Framing Data Ethics: A Multi-Dimensional Challenge
- Managing Data Ethics
  - Governance and Cultural Questions
  - Start Talking About It!

### **Module 6. Next Steps to Modern Data Governance (24 min)**

- A Modern Data Governance Framework: The Big Picture
- Goals
- Methods
- People



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- Processes
- Technology
- Culture
- Modernization Roadmap
  - Start With Assessment
  - Assess All Dimensions of Governance
  - Assess to Guide Planning
  - The Activities
  - Affinity and Dependencies
  - The Timeline