

Full day orientation to the breadth of a Modern BI Program

Overview:

Module 1: Modern BI

Module 2: Performance Management

Module 3: Business Analytics

Module 4: OLAP and Reporting

Module 5: People, Process and Technology

Module 6: Summary and Conclusions

Module 1: Modern BI

1 Modern Concerns

- Traditional data architecture
- Impact of new technologies and practices

2 Who Has an Interest in Information

3 Modern BI Services

- The Three Pillars of Modern BI
- Performance Management, OLAP and Analytics

4 Modern Information Architecture

- Impact of new technology on each service category

5 Information Requirements

- Organizing information requirements by business process
- Sorting requirements by BI service

Module 2: Performance Management

1 Performance Management

- Business performance
- Dashboards and Scorecards

2 Business Metrics and Data

- Aligning metrics with business strategy
- How to document business metrics

3 Performance Management and Other Services

- Linking dashboards to detail (PM and OLAP)
- Targeting analytics and measuring ROI (PM and Analytics)

4 Dynamic Nature of Performance Management

- Project vs. operations
- Adapting and evolving content of performance dashboards

5 Visualization

- Communicating the right message
- Eliminating chart junk
- High bandwidth visual elements

Module 3: Business Analytics

1 Insight and Impact

- What is an analytic model
- Kinds of models

2 Enabling Analytics

- Identifying where analytics can have business impact

- The makeup of project teams
 - Business analysts and analytic modelers
 - Methodologies for analytics
- 3 Big Data
- Sorting through the hype
 - Kinds of data structures
- 4 Information Architecture
- The place of unstructured data in your program
 - Capture & Explore
 - Discard / Deploy / Augment / Extend
- 5 Analytics and Performance Management
- Targeting metrics and measuring ROI
- 6 Which Data to Use
- Looking beyond enterprise data
 - The analytic sandbox
- 7 Incorporating Unstructured Data
- Augmenting the data warehouse
 - Linking dimensional data with machine data, semi structured data and key-value pairs

Module 4: OLAP and Reporting

- 1 Analysis and Detail
- Supporting ad hoc access, analysis and reporting
 - Integrated record of business performance
- 2 Enterprise Perspective
- Integrated data vs. stovepipes
 - Conformance
- 3 Business Information Requirements
- Capturing requirements through the Business Dimensional Model (BDM)
 - Fact groups & definitions
 - Dimensionality and hierarchies
 - Master Data Management
- 4 Dimensional Design
- Key characteristics of dimensional models
 - Handling history through “slow changes”
 - How to document a dimensional design
 - Quick overview of advanced concepts in dimensional modeling
- 5 Governance and Master Data
- Data governance
 - Governance roles
 - Master data management
 - Master data and conformed dimensions
- 6 OLAP and Performance Management
- Synchronizing perspectives on business metrics
- 7 OLAP and Business Analytics
- Making the data warehouse analytics-friendly
- 8 Virtualization
- Where virtualization may fit in the information architecture

Module 5 People, Process, and Technology

- 1 Architecture
- Components of architecture
 - Program management and planned evolution

2 Process: One size does not fit all

- Different nature of projects in OLAP, performance management and analytics
- Adapting projects to scope and importance of business need

3 Development Methods

- Control vs. autonomy in each BI service category
- The agile manifesto
- Collaboration and frequent delivery in BI

4 Organization: BI, IT and the Business

- Evolution of BI and analytic capabilities
- Cross-functional teams
- Competency centers and the contract with IT

5 Choosing Your Toolset

- Program control vs. Business Autonomy
- Policies for centralized and user-maintained toolsets

Module 6 Summary and Conclusions

- 1 Summary of Key Points
- 2 Recommended Reading