Module 1: Big Data and Business Case
- What is Big Data? – Creating a definition
- What will it solve? – Potential solutions for an organization (this will be specific for onsite courses)
- Business Users and Big Data
  - Understanding Roles and Skills – What does the business user bring to the table? Why should IT look to getting the business users own and drive the initiative?
  - Business User Ownership – What does this entail?
  - Challenges – Issues and Risks
- Building the Business Case
  - Components of Big Data Business Case
  - How to build the Appropriate Business Case
- Next Generation of Business Intelligence
  - Analytics and Metrics – What do we derive new?
  - Visualization Requirements – What are the changes and associated challenges?
  - Mashups – Understanding multi-dimensional data management. Metadata is critical and why?

Module 2: Semantics and Ontologies
- Introduction to Semantic Frameworks – Future of Visualization and Analytics
- Using Ontologies for Metadata Management – Case Study
- Managing Business Rules for Processing - Case Study

Module 3: Big Data and the Data Warehouse
- The New Landscape
- What Can We Solve
- How to Assess and Manage Data For Today and Future
- Technology overview
  - Hadoop, NoSQL, Cassandra, Big Query, Drill, Redshift, AWS (S3, EC2)
  - Programming with MapReduce
  - Understanding analytical requirements

Module 4: Self-Service Discovery Platforms
- Challenges of Data Management and Processing
- MDM, Metadata and More – Have we moved over this?

Module 5: Workloads
- Data Management
- Infrastructure Limitations

Module 6: Next-Generation Data Warehouse
- Solution architectures
  - The three s’s: scalability, sustainability, and stability
- People skills
- Critical success factors
Module 7: Big Data Road map

- Building A Road map
- Risks and Mitigations
- Business Driven Objectives
- Solving A Million Dollar Puzzle
- Readying The Organization