



***Framing and
Planning data
Science Projects that
Drive Business
Impact***

by Deanne Larson



Module 0. About the Course (2 min)

Module 1. Opportunity and Problem Modeling (39 min)

- *Data Science*
- *Problem or Opportunity*
- *Thinking Styles*
- *Three Stage Process*
- *Influence Modeling*
- *Kernel Seeking Modeling*
- *Causal Modeling*
- *Characteristics of a Good Problem Statement*
- *Define the Problem or Opportunity Example*

Module 2. Data Science Project Charter (20 min)

- *What is a Charter*
- *Benefits of a Charter*
- *Project Approach*
- *Project Outcomes – Hindsight*
- *Project Outcomes – Hindsight and Insight*
- *Project Outcomes – Insight*
- *Project Outcomes – Foresight*
- *Success Measures*
- *Assumptions*
- *Resources*
- *Constraints*
- *Milestone Schedule*
- *Budget*
- *Project Stakeholders*
- *Data Science Key Roles*

Module 3. Data Science Project Methodology (26 min)

- *Data Science Methodologies*
- *Cross Industry Standard Practices*
- *Team Data Science Process*
 - *Agile SCRUM Process*
- *Data Science Methodologies review*
- *Data Science Analytical Technology*
- *Data Science Infrastructure Technology*

Module 4. Data Science Project Scope (58 min)

- *Project Type and Maturity*
- *Problem Statement to Project Type*
- *ABC Airlines*
- *Other Project Considerations*
- *Scope*
- *Key Deliverables*
- *Scope Management*



SC-02: Framing and Planning Data Science Projects

Module 5. Data Science Project Plan (15 min)

- *Data Science Project Plan*
- *Agile and the Project Plan*
- *Project Kickoff*
- *Data Science Project Plan Image*
- *Project Plan Work Packages*
- *Data Science Project Plan Review*

Module 6. Additional Documents (22 min)

- *Data Science System Architecture Data Science System Architecture*
- *Data Science Data Definitions: Raw Data Sources*
- *Data Science Data Definitions: Process Data*
- *Data Science Data Definitions: Feature Sets*
- *Data Science Summary Report*
- *Data Science Model Report Part 1-2*
- *Data Science Exit Report: Overview*
- *Data Science Exit Report: Benefits*
- *Data Science Exit Report: Learnings*