Delivering Data Projects with Agile Frameworks Training Course

19 - 23 Oct 2026

Madrid

5900 € (Per Person)

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Course Introduction / Overview:

In today's data-driven landscape, traditional project management methodologies often fall short when applied to the unique challenges of data projects, which are characterized by exploration, uncertainty, and evolving requirements. This course provides a comprehensive framework for applying Agile principles to the entire data project lifecycle, from initial ideation to deployment and value delivery. We will explore how frameworks like Scrum and Kanban can be adapted to manage data science, business intelligence, and analytics projects effectively. Drawing on the foundational concepts of iterative development championed by pioneers like Jeff Sutherland, this program moves beyond theory to offer practical, actionable strategies. Participants will learn how to manage data backlogs, plan sprints that accommodate research and experimentation, and foster a culture of continuous improvement. This BIG BEN Training Center course is designed to empower teams to deliver high-quality data products faster, enhance stakeholder collaboration, and respond swiftly to changing business needs, ensuring that data initiatives consistently generate tangible business value. The curriculum is informed by industry best practices, including concepts discussed in influential works such as "Agile Data Warehouse Design" by Lawrence Corr.

Target Audience / This training course is suitable for:

- Project Managers and Program Managers.
- Data Scientists and Data Analysts.
- Business Intelligence Developers and Engineers.
- Data Engineers and Architects.
- Product Owners and Product Managers.
- Scrum Masters and Agile Coaches.
- IT Managers and Team Leads.
- Business Stakeholders involved in data initiatives.
- Software Developers working on data-intensive applications.

Target Sectors and Industries:

- Technology and Software Development.
- Financial Services and Insurance.
- Healthcare and Pharmaceuticals.
- Retail and E-commerce.
- Telecommunications.
- Government and Public Sector Agencies.
- Consulting and Professional Services.
- Manufacturing and Supply Chain.
- Media and Entertainment.

Target Organizations Departments:

- Information Technology (IT).
- Data Science and Analytics.
- Business Intelligence (BI).
- Research and Development (R&D).
- Product Management and Development.
- Project Management Office (PMO).
- Marketing and Sales Analytics.
- Operations and Logistics.
- Finance and Risk Management.

Course Offerings:

By the end of this course, the participants will have able to:

- Apply core Agile principles and values to the specific context of data projects.
- Differentiate between Scrum and Kanban and select the appropriate framework for various data initiatives.
- Create and manage a product backlog with well-defined user stories for data analysis and modeling tasks.
- Plan and execute sprints that balance exploratory data work with concrete deliverables.
- Integrate data quality, governance, and security practices into the Agile workflow.
- Facilitate key Agile ceremonies, including sprint planning, daily stand-ups, sprint reviews, and retrospectives for data teams.
- Develop relevant metrics to track the progress and value of Agile data projects.
- Manage stakeholder expectations and communication effectively throughout the project lifecycle.
- Address common challenges in implementing Agile for data science and analytics teams.
- Develop a roadmap for adopting or improving Agile practices within their organization's data functions.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, immersive, and practical, ensuring that participants can immediately apply their learning to real-world scenarios. This course moves beyond traditional lectures to create a dynamic learning environment. We utilize a blend of expert-led instruction, detailed case studies of successful Agile data project implementations, and collaborative group exercises. Participants will engage in hands-on workshops where they will simulate sprint planning for a data science project, practice writing data-specific user stories, and create Kanban boards tailored for analytics workflows. A significant portion of the course is dedicated to team-based problem-solving activities and peer-to-peer feedback sessions, which foster a deeper understanding of the material and encourage the sharing of diverse perspectives. Our experienced instructors facilitate discussions, guide participants through complex challenges, and provide personalized coaching. This approach ensures that attendees not only grasp the theoretical concepts of Agile for data projects but also build the confidence and skills necessary to lead and execute them successfully within their own organizations.

Course Agenda (Course Units):

Unit One: Foundations of Agile for Data Projects

- Introduction to Agile principles and the Agile Manifesto.
- Contrasting Agile with traditional Waterfall methodologies in data contexts.
- Understanding the unique challenges of data projects (e.g., research spikes, non-deterministic outcomes).
- Overview of key Agile frameworks: Scrum and Kanban.
- The roles and responsibilities in an Agile data team.
- Case study analysis of a failed Waterfall data project.
- Setting the stage for an Agile transformation in a data department.

Unit Two: Project Initiation and Backlog Management

- Defining the vision and roadmap for a data product.
- Techniques for identifying and engaging key stakeholders.
- Crafting effective user stories and acceptance criteria for data analytics.
- Building and prioritizing the data project backlog.
- Estimation techniques for data-related tasks (e.g., Story Points, T-shirt Sizing).
- The role of the Product Owner in maximizing value.
- Workshop: Creating a product backlog for a sample business intelligence project.

Unit Three: Executing Sprints and Iterations

- The anatomy of a data science sprint.
- Sprint Planning: Selecting work and defining the sprint goal.
- Conducting effective Daily Stand-ups for data teams.
- Managing exploratory work and research spikes within a timebox.
- The Sprint Review: Demonstrating value and gathering feedback.
- The Sprint Retrospective: Driving continuous improvement.
- Simulation: Running a full sprint cycle for a machine learning model development.

Unit Four: Data Governance, Quality, and Technical Practices

- Integrating data quality and validation into the Definition of Done.
- Agile approaches to data modeling and database design.
- Implementing CI/CD (Continuous Integration/Continuous Deployment) for data pipelines.
- Managing data dependencies and data environments in an Agile way.
- Incorporating data security and privacy compliance into sprints.
- Version control for code, models, and data.
- Best practices for documentation in an Agile data environment.

Unit Five: Advanced Topics and Organizational Adoption

- Metrics and Key Performance Indicators (KPIs) for Agile data teams.
- Managing and communicating with stakeholders in an Agile project.
- Scaling Agile for large-scale data programs (introduction to LeSS and SAFe).
- Overcoming common obstacles and anti-patterns in Agile data projects.
- Fostering an Agile mindset and culture within the organization.
- Developing a change management plan for Agile adoption.
- Capstone exercise: Designing an Agile implementation plan for your team or organization.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

How can an organization balance the exploratory, often unpredictable nature of data science research with the structured, time-boxed delivery cycles of Agile sprints without stifling innovation?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by moving beyond generic Agile training to address the specific, nuanced challenges inherent in data-centric projects. While many courses teach Scrum or Kanban in a software development context, our curriculum is meticulously crafted for the world of data science, analytics, and business intelligence. We directly tackle the difficult questions: How do you fit a long-term research spike into a two-week sprint? How do you write user stories when the outcome is an insight, not a feature? The program emphasizes practical, battle-tested strategies for managing the non-deterministic and exploratory nature of data work within a structured framework. Rather than focusing on specific software tools, we concentrate on the adaptable methodologies, team dynamics, and stakeholder management techniques that are critical for success. Participants will engage in simulations and case studies drawn from real-world data projects, providing them with a deep, contextual understanding. This focus on the unique intersection of data and Agile principles ensures that graduates are not just certified in a methodology, but are truly equipped to lead and deliver value in complex data environments.