Agile R&D and Project Management Methodologies Training Course

16 - 20 Nov 2026

Barcelona

5900 € (Per Person)

Ref: #RD4489_66428

Course Introduction / Overview:

The traditional model of research and development, with its long timelines and rigid processes, is being challenged by the need for speed and adaptability. This training course is designed to provide R&D and engineering professionals with the principles and practices of agile methodologies, allowing them to accelerate innovation and respond to market changes. It goes beyond the theory of agile to focus on its practical application in complex R&D environments, including pharmaceutical, engineering, and technology development. We will explore how to implement Scrum, Kanban, and other agile frameworks to manage projects, foster collaboration, and deliver value incrementally. The curriculum is informed by the foundational work of global academics like Jeff Sutherland, whose work on the Scrum framework has transformed how teams work. This program provides a clear blueprint for turning a slow, sequential R&D process into a fast, iterative one. BIG BEN Training Center is committed to empowering R&D teams to deliver breakthrough innovations with greater speed and efficiency.

Target Audience / This training course is suitable for:

- R&D team leaders and managers.
- Engineers and scientists.
- Product owners and project managers.
- Innovation managers.
- Business analysts in technical fields.
- Venture capitalists investing in R&D-heavy companies.
- Corporate strategic planners.

Target Sectors and Industries:

- Technology and software development.
- Pharmaceutical and biotechnology.
- Manufacturing and engineering.
- Aerospace and defense.
- Medical device development.
- Consumer electronics.
- Government R&D agencies.

Target Organizations Departments:

- Research and Development (R&D).
- Product development.
- Engineering.
- Project management.
- Innovation and technology.
- Corporate strategy.
- Quality assurance.

Course Offerings:

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

- Apply agile and Scrum principles to R&D projects.
- Develop and manage an agile project backlog.
- Lead a daily stand-up and a sprint review.
- Use Kanban to visualize and optimize workflow.
- Foster a culture of collaboration and continuous improvement.
- Break down complex projects into manageable sprints.
- Manage project risks and dependencies in an agile way.
- Measure and report on team performance using agile metrics.

Course Methodology:

This training course uses a highly interactive and case-based methodology to ensure participants gain actionable skills in agile R&D. The program incorporates detailed case studies of leading companies that have successfully adopted agile methods to accelerate their innovation pipelines. We will use interactive workshops and project simulations to practice critical skills like building a backlog, facilitating a sprint retrospective, and managing a daily scrum. The course includes a hands-on group project where participants will work together to apply agile methodologies to a fictional R&D challenge, from initial problem definition to final delivery. BIG BEN Training Center believes that hands-on training is essential for mastering these new ways of working. Our expert facilitators will guide discussions and provide personalized feedback, ensuring that participants leave with the confidence and practical experience needed to lead their teams in an agile environment.

Course Agenda (Course Units):

Unit One: Introduction to Agile R&D

- The limitations of traditional R&D.
- The agile manifesto and its principles.
- Key agile methodologies (Scrum, Kanban, Lean).
- Why agile is a good fit for R&D.
- The role of the agile leader.

Unit Two: The Scrum Framework in R&D

- The Scrum roles (Product Owner, Scrum Master, Team).
- Building and managing the product backlog.
- Sprint planning and execution.
- Daily Scrums and sprint reviews.
- Sprint retrospectives and continuous improvement.

Unit Three: Kanban and Other Agile Practices

- Introduction to Kanban.
- Visualizing workflow with Kanban boards.
- Limiting work in progress (WIP).
- Agile estimation techniques.
- The role of user stories and epics.

Unit Four: Scaling Agile in an R&D Environment

- Scaling agile for large teams and projects.
- Managing dependencies between teams.
- Agile reporting and metrics.
- Risk management in an agile context.
- Integrating agile with stage-gate models.

Unit Five: Leading an Agile R&D Culture

- Fostering trust and psychological safety.
- Overcoming resistance to change.
- The leader's role in removing impediments.
- Building a learning organization.
- Developing a personal agile leadership roadmap.

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 R&D leaders balance the fast, iterative nature of agile methodologies with the need for rigorous scientific testing and long-term research that may not produce immediate results?

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

This training course is a highly specialized program that focuses on the unique and critical application of agile methodologies to research and development, which sets it apart from generic software development courses. Our curriculum is tailored to address the specific challenges of R&D, where uncertainty and discovery are inherent parts of the process. We go beyond theoretical frameworks to provide a practical, hands-on learning experience through realistic case studies and interactive exercises. The course distinguishes itself by emphasizing not only the technical skills needed to run an agile team but also the leadership and cultural acumen required to foster a truly agile mindset within a scientific or engineering organization. By focusing on both the process and the human aspects of agile R&D, this program provides an invaluable skill set that is essential for any professional committed to a more efficient and innovative R&D pipeline.