



STRATEGIC R&D LEADERSHIP FOR INNOVATION AND GROWTH TRAINING COURSE

26 - 30 OCT 2026

KUALA LUMPUR

5200 € (PER PERSON)

REF: #RD5328_180358



COURSE INTRODUCTION / OVERVIEW:

In today's hyper-competitive global market, the ability to innovate is not just an advantage; it is a necessity for survival and growth. Effective Research and Development (R&D) leadership is the cornerstone of this capability, transforming scientific discovery and technological potential into tangible business value. This course provides a comprehensive framework for leaders to steer their R&D functions strategically, ensuring alignment with corporate objectives and fostering a culture of continuous innovation. Drawing upon seminal concepts from thought leaders like Henry Chesbrough, particularly his work on "Open Innovation," this program moves beyond traditional project management to cultivate strategic foresight and leadership acumen. Participants will explore how to build and manage a balanced R&D portfolio, lead high-performing creative teams, and navigate the complex journey from ideation to successful commercialization. BIG BEN Training Center has designed this immersive experience to equip current and future R&D leaders with the advanced skills needed to drive technological breakthroughs, manage intellectual property effectively, and build a resilient innovation engine that secures a competitive edge for their organization. This is a definitive guide to mastering the art and science of R&D leadership in the 21st century.

TARGET AUDIENCE / THIS TRAINING COURSE IS SUITABLE FOR:

- R&D Managers and Directors.
- Heads of Innovation and Technology.
- Chief Technology Officers (CTOs).
- Product Development Managers.
- Senior Scientists and Research Team Leaders.
- Engineering Managers.
- Corporate Strategists involved in technology planning.
- Project and Program Managers in technical environments.
- Business Unit Leaders with R&D oversight.
- Entrepreneurs and startup founders.

TARGET SECTORS AND INDUSTRIES:

- Pharmaceuticals and Biotechnology.
- Information Technology and Software Development.
- Manufacturing and Industrial Goods.
- Automotive and Aerospace.

- Telecommunications.
- Consumer Electronics and Goods.
- Energy and Utilities.
- Chemicals and Materials Science.
- Governmental research agencies and public sector organizations.
- Defense and Security.



TARGET ORGANIZATIONS DEPARTMENTS:

- Research and Development (R&D).
- Product Development and Management.
- Engineering.
- Innovation and New Ventures.
- Corporate Strategy and Planning.
- Technology Management.
- Intellectual Property Management.
- Quality Assurance and Control.
- Operations Management.

COURSE OFFERINGS:

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

- Develop a robust R&D strategy that is fully aligned with overarching business goals.
- Master R&D portfolio management techniques to balance risk, reward, and resource allocation.
- Cultivate a dynamic culture of innovation and creativity within technical teams.
- Lead, motivate, and manage high-performing scientists, engineers, and researchers effectively.
- Implement agile and lean principles within the R&D project lifecycle to accelerate development.
- Formulate and execute a comprehensive intellectual property (IP) strategy.
- Evaluate and integrate open innovation and external collaboration models.
- Create and utilize technology roadmaps for long-term strategic planning.
- Establish meaningful KPIs and metrics to measure R&D performance and impact.
- Navigate the process of technology transfer and commercialization successfully.

COURSE METHODOLOGY:

The training methodology at BIG BEN Training Center is designed to be highly interactive, experiential, and directly applicable to the participant's professional challenges. This course moves beyond theoretical lectures to immerse attendees in a dynamic learning environment. A cornerstone of our approach is the extensive use of real-world case studies, analyzing the R&D strategies of both successful and unsuccessful technology-driven companies to extract critical lessons. Participants will engage in collaborative group workshops to tackle complex problems, such as designing an R&D portfolio or developing a technology roadmap for a hypothetical company. Interactive sessions, facilitated discussions,

and peer-to-peer learning are central to the experience, allowing for the exchange of diverse perspectives and best practices. Practical exercises, role-playing scenarios for managing creative teams, and structured feedback sessions ensure that concepts are not just understood but can be confidently applied. This blended learning approach guarantees that participants leave with not only new knowledge but also the practical skills and strategic mindset to transform their organization's R&D function.



COURSE AGENDA (COURSE UNITS).

UNIT ONE: THE STRATEGIC ROLE OF R&D LEADERSHIP

- The evolution of R&D from a cost center to a value driver.
- Aligning R&D strategy with corporate vision and business objectives.
- Analyzing the competitive landscape and technological trends.
- The R&D leader as a strategist, innovator, and business partner.
- Frameworks for technology and innovation strategy formulation.
- Understanding different types of innovation from incremental to disruptive.
- Communicating the value of R&D to the C-suite and stakeholders.

UNIT TWO: BUILDING AND LEADING HIGH-PERFORMING INNOVATION TEAMS

- Recruiting, developing, and retaining top R&D talent.
- Leadership styles for managing creative and technical professionals.
- Fostering a culture of psychological safety, experimentation, and intelligent risk-taking.
- Managing conflict and collaboration within multidisciplinary teams.
- Motivational strategies for long-cycle research projects.
- Performance management and career pathing for R&D staff.
- Building effective communication channels within and outside the R&D department.

UNIT THREE: R&D PORTFOLIO AND FINANCIAL MANAGEMENT

- Principles of R&D portfolio management to balance short-term and long-term goals.
- Techniques for project selection, prioritization, and resource allocation.
- Managing risk and uncertainty in the innovation pipeline.
- Developing and managing the R&D budget effectively.
- Financial metrics for R&D projects (NPV, IRR, and Real Options).
- Stage-Gate processes and other project management frameworks for R&D.
- Implementing Agile and Lean methodologies in a research environment.

UNIT FOUR: OPEN INNOVATION AND INTELLECTUAL PROPERTY STRATEGY

- Fundamentals of Open Innovation and collaborative R&D models.
- Identifying and engaging with external partners like universities, startups, and suppliers.
- Managing collaborative projects and technology scouting.
- Developing a robust intellectual property (IP) strategy.

- Understanding patents, trademarks, copyrights, and trade secrets.
- IP valuation and its role in corporate strategy.
- Navigating freedom-to-operate and competitive intelligence.



UNIT FIVE: FROM LAB TO MARKET AND FUTURE-PROOFING R&D

- Managing the technology transfer and commercialization process.
- Bridging the gap between R&D, marketing, and sales teams.
- Conducting effective market validation and product-market fit analysis.
- Developing and maintaining a long-term technology roadmap.
- Anticipating technological disruptions and industry shifts.
- The role of data analytics and AI in modern R&D.
- Ethical considerations and corporate social responsibility in innovation.

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:

In an era of rapid technological disruption, how can an R&D leader balance the pursuit of incremental improvements with the high-risk, high-reward gamble on breakthrough innovations?

WHAT UNIQUE QUALITIES DOES THIS COURSE OFFER COMPARED TO OTHER COURSES?

This course distinguishes itself by focusing intently on the strategic leadership dimension of R&D, rather than solely on project management mechanics. While many programs teach how to manage an R&D project, this training course teaches how to lead an entire R&D function that consistently generates strategic value. It integrates advanced business concepts with technical oversight, preparing leaders to engage in C-suite level discussions about how innovation drives corporate growth. The curriculum is uniquely structured around a holistic view of the innovation lifecycle, from fostering the right creative culture to navigating the complexities of intellectual property and successful commercialization. We delve deeply into sophisticated frameworks, such as Henry Chesbrough's Open Innovation models and real options analysis for portfolio management, providing a rigorous academic foundation. The emphasis on practical application through complex case studies and leadership simulations ensures that participants develop not just knowledge, but strategic judgment. It is designed for those who aspire to not only manage innovation but to architect their organization's technological future.