Biotechnology Literacy for Non-Scientists Training Course

7 – 11 June 2027
Singapore

AGILE LEADERS
Training Center

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Ref: 1425_205193 **Date:** 7 – 11 June 2027 **Location:** Singapore **Fees:** 6500 Euro

Overview

Biotechnology Literacy for Non-Scientists Training Course is a one-week foundation course for managers, coordinators, commercial teams, and support professionals who leave with a Biotechnology Decision and Communication Map. Participants interpret scientific language, product pathways, evidence, process handoffs, quality, safety, ethics, and business implications without training as laboratory specialists. The course replaces disconnected terminology with questions and decision tools for cross-functional work. Agile Leaders Training Center presents biotechnology literacy through business-facing scientific interpretation.

Who Should Attend

- Management functions responsible for decisions involving biotechnology projects, teams, suppliers, or investments
- Commercial functions responsible for customers, markets, partnerships, value propositions, or product planning
- Project functions responsible for coordinating scientific, operational, quality, and business workstreams
- Support functions responsible for finance, procurement, human resources, administration, or communications
- Quality and operations functions responsible for interpreting technical dependencies and escalation points
- Public and nonprofit functions responsible for biotechnology initiatives, services, or stakeholder engagement

The course assumes participants make or support workplace decisions and leaves out laboratory procedures, experimental design, clinical advice, and product-specific submissions.

Departments and Industries

The course supports departments and industries that need biotechnology literacy for cross-functional decisions.

- Biotechnology, biopharmaceutical, diagnostics, vaccine, and life-science services
- Food, agriculture, environmental, and industrial biotechnology
- Strategy, finance, commercial, procurement, and partnership departments
- Project management, operations, supply, and technology-transfer functions
- Quality, risk, communications, and corporate support teams
- Research organizations, investors, advisory firms, and public-service entities

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Learning Objectives

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

- Apply biotechnology vocabulary in cross-functional discussions
- Analyze scientific claims and evidence boundaries
- Compare biotechnology platforms and applications
- Build a discovery-to-product lifecycle map
- Evaluate quality, biosafety, biosecurity, and ethical dependencies
- Use decision questions to coordinate technical and business teams

Course Agenda

Day 1: Biotechnology Language for Business Roles

- Biotechnology Vocabulary and Concept Map
- Cell, DNA, RNA, and Protein Relationship Diagram
- Genetic Engineering Explanation Model
- Scientific Claim and Evidence Boundary Checklist
- Technical Question Formulation Guide

Day 2: Platforms, Applications, and Value Pathways

- Biotechnology Platform Classification Matrix
- Therapeutic, Diagnostic, Agricultural, and Industrial Application Map
- Biological Product Value Pathway Canvas
- Technology Readiness Evidence Ladder
- Benefit, Limitation, and Uncertainty Register

Day 3: Product Lifecycle and Process Handoffs

- Discovery-to-Development Stage Map
- Bioprocess Workflow Interpretation Diagram
- Research, Manufacturing, and Quality Handoff Matrix
- Scale-Up Dependency and Constraint Map
- Product Lifecycle Decision-Gate Template

Day 4: Quality, Risk, Ethics, and Communication

- Quality Attribute and Business Impact Matrix
- Risk-Based Biosafety Question Set
- Biosecurity and Information Stewardship Checklist
- Ethical Consequence and Stakeholder Map
- Cross-Functional Translation and Escalation Plan

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Day 5: Biotechnology Decision Practice

- Exercise: Translate a Scientific Brief for Business Teams
- Exercise: Compare Biotechnology Platform Options
- Exercise: Trace Product Lifecycle Handoffs
- Exercise: Frame Quality, Safety, and Ethics Questions
- Capstone Exercise: Biotechnology Decision and Communication Map

Practical Exercises

The course uses suggested activities drawn from therapeutics, diagnostics, food biotechnology, and industrial applications.

- Suggested activity: convert a technical explanation into a decision summary with claims, evidence, uncertainty, and questions.
- Suggested activity: compare platform options using application fit, readiness, process needs, quality dependencies, and constraints.
- Suggested activity: map handoffs among research, manufacturing, quality, commercial, and support functions.
- Suggested activity: build a Biotechnology Decision and Communication Map for a cross-functional scenario.

FAQs

Who suits a biotechnology literacy course for non-scientists, and what does it assume?

A biotechnology literacy course suits managers, coordinators, commercial teams, and support professionals who make or support decisions but do not require laboratory training or prior molecular biology expertise.

How does biotechnology literacy training differ from a biotechnology laboratory course?

Biotechnology literacy training develops interpretation, questioning, lifecycle, risk, and communication skills, while a laboratory course develops experimental techniques, equipment use, protocols, and technical competence.

How can non-scientists evaluate biotechnology claims?

Non-scientists can evaluate biotechnology claims by separating evidence from assumptions, identifying the development stage, checking limitations and uncertainty, and asking what data supports the claimed application or decision.

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Why do biotechnology product decisions involve quality and biosafety?

Biotechnology product decisions involve quality and biosafety because biological materials, process conditions, variability, handling, containment, and controls affect reliability, risk, handoffs, and the ability to progress responsibly.

What helps technical and business teams communicate about biotechnology?

Shared vocabulary, clear evidence boundaries, lifecycle maps, defined handoffs, decision questions, escalation points, and explicit uncertainties help technical and business teams communicate about biotechnology.

Conclusion

The course connects biotechnology language, scientific evidence, platforms, applications, lifecycle decisions, process handoffs, quality, risk, ethics, and communication. Participants take back a Biotechnology Decision and Communication Map. The map improves cross-functional work by making claims, evidence, dependencies, questions, responsibilities, uncertainties, and escalation points visible.