TECHNOLOGY STRATEGY AND ROADMAPPING



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Introduction

Technology Strategy and Roadmapping examines how organizations decide which technologies to invest in and how to sequence that investment over time. This Training Course covers technology scanning, portfolio prioritisation, capability assessment, and roadmap governance. Participants study technology radar methods, the technology readiness level scale, TOGAF and ITIL alignment, Wardley mapping, the Ansoff matrix applied to technology, and total cost of ownership models. Furthermore, the programme connects strategy to delivery through scanning labs, roadmap drafting, and investment review simulations. As a result, delegates leave able to build a technology roadmap that engineering, finance, and leadership all support.

Technology Strategy and Roadmapping Course Objectives

- Define technology strategy and its link to business strategy.
- Scan emerging and maturing technologies systematically.
- Assess technology readiness using the TRL scale.
- Apply Wardley mapping to value chain evolution.
- Evaluate technology options with criteria and weighted scoring.
- Build a technology portfolio with prioritisation logic.
- Apply enterprise architecture alignment with TOGAF.
- Design service and operations alignment with ITIL practices.
- Estimate total cost of ownership and return on investment.
- Govern, review, and refresh the technology roadmap.

Course Methodology

- Interactive workshops using real technology strategy files.

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- Technology scanning and radar construction labs.
- TRL assessment and Wardley mapping exercises.
- Roadmap drafting and portfolio prioritisation workshops.
- Investment review and challenge simulations.
- Action planning that converts each session into a workplace commitment.

Who Should Take This Course

- Technology and IT strategy leaders.
- Enterprise architects and solution architects.
- Digital transformation managers.
- Product and platform owners.
- Innovation and R&D managers.
- Finance business partners for technology spend.
- Consultants advising on technology strategy.

Technology Strategy and Roadmapping Course Outlines

Day 1: Technology Strategy Foundations

- Defining technology strategy and its business purpose.
- Technology strategy versus IT strategy versus digital strategy.
- Aligning technology choices with business objectives.
- Stakeholder mapping across business, IT, and vendors.
- Governance, risk, and ethical technology use.
- Operating models for technology functions.

- Building the technology strategy framework.

Day 2: Technology Scanning and Assessment

- Technology radar: adopt, trial, assess, and hold.
- Horizon scanning and weak signal detection.
- The technology readiness level (TRL) scale.
- Hype cycle interpretation and maturity assessment.
- Patent, vendor, and market intelligence review.
- Build versus buy versus partner analysis.
- Documenting evidence and assumptions.

Day 3: Architecture, Portfolio, and Capability

- Enterprise architecture alignment with TOGAF ADM.
- Service management alignment with ITIL practices.
- Wardley mapping for value chain evolution.
- Capability and skills gap assessment.
- Technology portfolio construction and balancing.
- Prioritisation with weighted scoring and value-risk matrices.
- Technical debt and legacy modernisation decisions.

Day 4: Roadmapping and Investment Design

- Roadmap horizons: now, next, and later.
- Dependency mapping and sequencing logic.
- Total cost of ownership and return on investment models.
- Business case development for technology investment.

- Vendor, licensing, and cloud cost considerations.
- Risk, cybersecurity, and compliance requirements.
- Roadmap documentation and communication formats.

Day 5: Governance, Delivery, and Refresh

- Roadmap governance and decision rights.
- Review cadence and stage-gate checkpoints.
- Delivery alignment with portfolio and project governance.
- Benefits tracking and value realisation.
- Adoption, change management, and user readiness.
- Roadmap refresh triggers and horizon rebalancing.
- Personal action plan and continuous improvement.

Conclusion

By successfully completing Technology Strategy and Roadmapping, participants will have acquired a practical command of technology scanning, readiness assessment, portfolio prioritisation, roadmap design, and investment governance. They will know how to judge which technologies deserve investment, sequence that investment sensibly, and present the case in language finance and leadership accept. In addition, the course prepares delegates to govern delivery, track value, and refresh the roadmap as technology and business conditions change. As a result, they return to work ready to build technology direction their organization can follow. Gentex Training Center delivers this Training Course with a practical, standards-based approach.

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FAQs for the Technology Strategy and Roadmapping course

Q1 What is the "Technology Strategy and Roadmapping" course about?

It is a five-day programme covering how organizations choose technologies and sequence investment. It covers technology scanning with radar and horizon methods, readiness assessment with TRL, enterprise architecture alignment with TOGAF, service alignment with ITIL, Wardley mapping, portfolio prioritisation, roadmapping, and investment governance.

Q2 What are the key benefits of the "Technology Strategy and Roadmapping" course?

Participants gain the ability to judge which technologies deserve investment rather than reacting to vendor pressure, sequence spending across realistic horizons, and present business cases finance accepts. They also learn to govern delivery and refresh the roadmap as conditions shift, which reduces wasted spend and abandoned projects.

Q3 What skills will I gain from the "Technology Strategy and Roadmapping" course?

Technology scanning with radar construction, horizon scanning, and technology readiness level assessment, architecture and capability analysis with TOGAF ADM alignment, ITIL practice alignment, and Wardley mapping, portfolio prioritisation with weighted scoring and value-risk matrices, and roadmap design with horizon planning, dependency mapping, total cost of ownership modelling, and investment governance.

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Q4 What tools, methods, or standards are covered in the "Technology Strategy and Roadmapping" course?

The course covers technology, IT and digital strategy distinctions, business objective alignment, stakeholder mapping across business, IT and vendors, governance, risk and ethical technology use, technology function operating models, the technology radar across adopt, trial, assess and hold categories, horizon scanning and weak signal detection, the technology readiness level (TRL) scale, hype cycle interpretation and maturity assessment, patent, vendor and market intelligence review, build versus buy versus partner analysis, TOGAF Architecture Development Method alignment, ITIL service management practice alignment, Wardley mapping for value chain evolution, capability and skills gap assessment, technology portfolio construction and balancing, weighted scoring and value-risk matrix prioritisation, technical debt and legacy modernisation decision frameworks, roadmap horizons across now, next and later, dependency mapping and sequencing logic, total cost of ownership and return on investment modelling, technology investment business case development, vendor, licensing and cloud cost analysis, risk, cybersecurity and compliance requirement mapping, roadmap documentation and communication formats, roadmap governance and decision rights, review cadence and stage-gate checkpoint design, portfolio and project governance alignment, benefits tracking and value realisation, adoption, change management and user readiness planning, and roadmap refresh trigger and horizon rebalancing.

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Q5 How is the "Technology Strategy and Roadmapping" course applied in real-world practice?

Delegates apply it through technology radars, horizon scanning reports, TRL assessments, Wardley maps, architecture alignment reviews, capability gap analyses, portfolio prioritisation matrices, technical debt registers, technology roadmaps, dependency maps, total cost of ownership models, business cases, vendor evaluations, investment papers, stage-gate reviews, benefits trackers, adoption plans, and roadmap refresh documents. They also use it to chair technology investment boards and to brief executives on technology direction.