BIZ-A9

BIZ-A9 — Building a Custom AI Capability — Local AI for Business

Business — Advanced / Advanced and Consulting

Audience	CEOs, CTOs, operations directors, digital leads, business owners evaluating private AI
Prerequisites	BIZ-A8 — AI Strategy and Transformation (recommended) or equivalent strategic AI understanding
Duration	2 days
Delivery format	Executive workshop — technical decision-making for business leaders
Group size	6–12
Materials provided	Architecture reference guide, use case evaluation framework, infrastructure cost calculator, implementation planning toolkit, security and data privacy checklist

Description

This two-day workshop is for organisations evaluating private AI deployment on their own infrastructure for data sovereignty, regulatory compliance, or proprietary capability reasons. Participants work through technical decision-making with a mixed leadership and technical audience. Covers architecture options, realistic use case assessment, hardware requirements and costs, data privacy and security architecture, vendor selection, and implementation sequencing. Includes access to hands-on demonstrations of private AI systems, cost modelling exercises, and capability assessment. Leaves with an implementation plan and budget model.

Key Modules

Module 1 — The case for private AI

Data sovereignty, regulatory compliance (GDPR, sector-specific), proprietary capability, and cost analysis over 3–5 years. Comparison with cloud AI alternatives. When private deployment makes sense and when it does not. Risk and regulatory assessment.

Module 2 — Architecture overview

What a private AI deployment actually consists of: models, infrastructure, data pipelines, APIs, security layers, and monitoring. Open-source versus proprietary models. On-premises versus edge versus hybrid deployments. Integration with existing enterprise systems.

Module 3 — Use case identification

Where private AI creates value over cloud: proprietary data, latency-sensitive applications, compliance-constrained use cases, cost optimisation at scale. Realistic assessment of which use cases are worth the investment. Building a business case for private deployment.

Module 4 — Hardware and infrastructure

GPU and compute requirements for different model sizes and use cases. Storage and network bandwidth requirements. Cost per inference and total cost of ownership modelling. Refresh cycles and depreciation. Facility requirements (cooling, power, space).

Module 5 — Data privacy and security

Architectural decisions that protect sensitive data: encryption at rest and in transit, access controls, audit logging, compliance controls. Data governance for private systems. Protecting the model itself as IP.

Module 6 — Implementation planning

Build sequence and dependencies. Vendor evaluation and selection. Integration with existing systems. Team and skill requirements. Timeline and resource plan. Risk mitigation and contingency. Phased rollout and early wins.

What You Will Be Able To Do

1.	Evaluate the case for private AI deployment against cloud alternatives with business and regulatory reasoning
2.	Understand private AI architecture and the components required for a functional system
3.	Identify and assess use cases where private AI creates genuine value
4.	Calculate hardware requirements, infrastructure costs, and total cost of ownership
5.	Design data privacy and security architecture for sensitive AI workloads
6.	Develop an implementation plan with vendor selection, timeline, resourcing, and risk mitigation

Delivery Notes

Technical lab environment with internet access, projector, and tables for planning work. Participants require laptops. Live demonstrations of private AI systems (local models running on GPU, containerised deployments). Access to infrastructure cost calculators and vendor pricing databases. Reference documentation and architecture diagrams. Facilitator should be a solutions architect or technical leader with private AI implementation experience. Co-facilitator with infrastructure/DevOps expertise highly recommended. Optimal group size 8–12, mixed roles (CTO, engineering lead, security, compliance, business owner). Two days allows depth on technical architecture plus business planning.

Pathway Position

Comes after: BIZ-A8 — AI Strategy and Transformation (recommended)

Feeds into: BIZ-A11 — Private AI Infrastructure (consulting engagement for build)

Ready to book this course?

Contact Io Technologies to discuss delivery at your organisation.

All courses and engagements are delivered on request — on-site, remote, or blended.