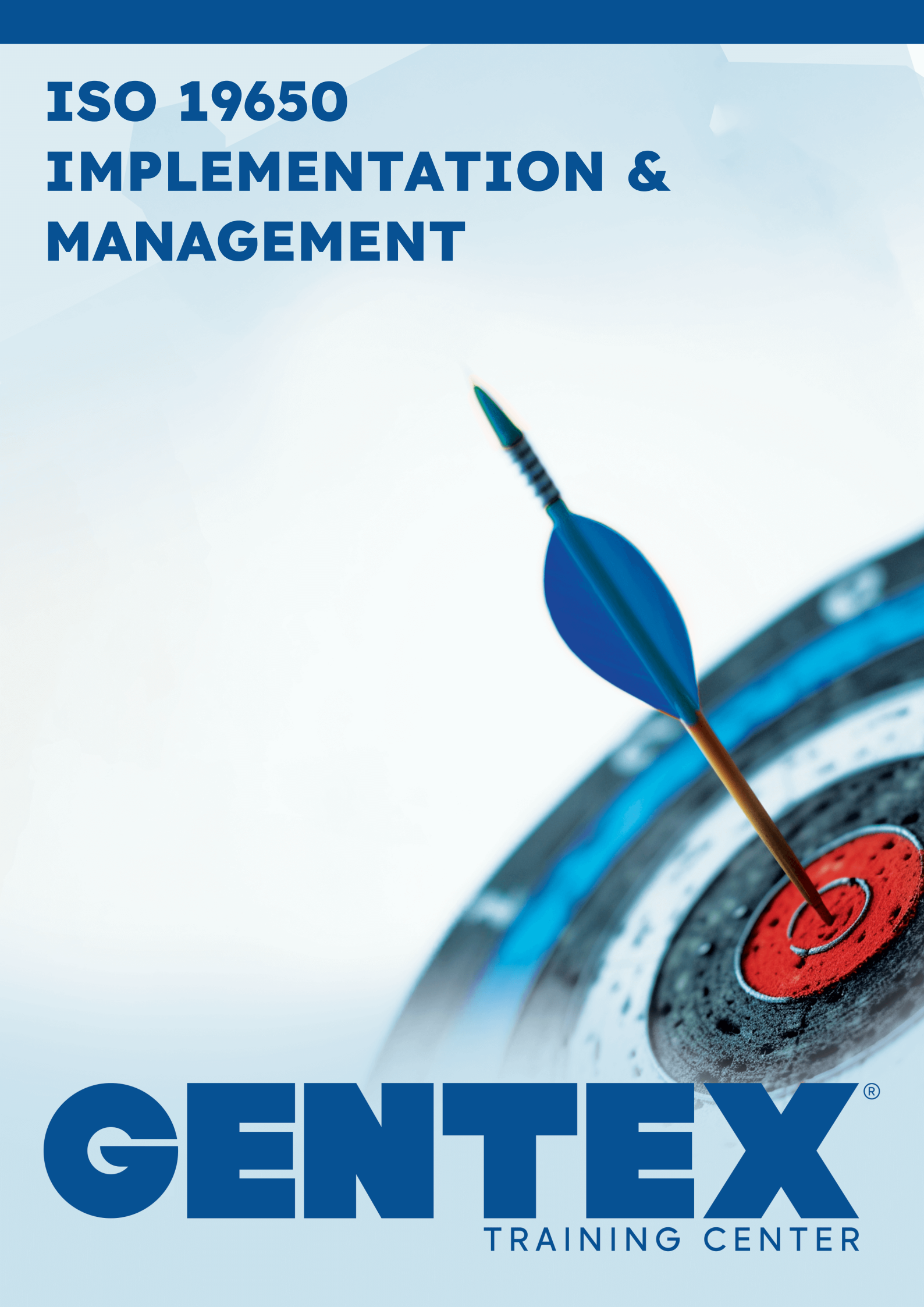
ISO 19650 IMPLEMENTATION & MANAGEMENT



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Introduction

ISO 19650 Implementation and Management examines how organizations set up and run building information modelling information management to the international standard. This Training Course covers the ISO 19650 series, the Common Data Environment, information delivery planning, and security-minded information sharing. Participants study ISO 19650-1 concepts and principles, ISO 19650-2 delivery phase requirements, ISO 19650-3 operational phase requirements, ISO 19650-5 security-minded approach, the UK BIM Framework and PAS 1192 heritage, the exchange information requirements and BIM execution plan, information containers and the CDE workflow states of work in progress, shared, published and archive, naming conventions and metadata, the project information model and asset information model, ISO/IEC 27001 alignment for information security, and level of information need definitions. Furthermore, the programme connects standard requirements to project delivery through CDE design labs, appointment and exchange information requirement workshops, and information delivery simulations.

ISO 19650 Implementation & Management Course Objectives

- Explain the ISO 19650 series and its relationship to PAS 1192.
- Apply ISO 19650-1 concepts, principles, and terminology.
- Apply ISO 19650-2 delivery phase information management.
- Apply ISO 19650-3 operational phase and asset information management.
- Apply the ISO 19650-5 security-minded approach.
- Define organizational, project, and exchange information requirements.
- Design and configure a Common Data Environment.
- Apply naming conventions, metadata, and revision control.
- Build BIM execution plans and information delivery plans.
- Govern information management roles, tasks, and capability assessment.

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Course Methodology

- Interactive workshops using real project information files.
- CDE design, workflow state, and permission labs.
- Information requirement and BIM execution plan exercises.
- Naming convention, metadata, and revision workshops.
- Information delivery and security simulations.

Who Should Take This Course

- BIM managers and information managers.
- Project information managers on construction projects.
- Design and engineering discipline leads.
- Document controllers and CDE administrators.
- Asset and facilities information managers.
- Digital construction and transformation leads.
- Consultants implementing ISO 19650.

ISO 19650 Implementation & Management Course Outlines

Day 1: The ISO 19650 Series and Core Concepts

- The ISO 19650 series and its relationship to PAS 1192.
- ISO 19650-1 concepts, principles, and terminology.
- Information management functions and roles.
- The information management cycle across asset life.

- Appointing party, lead appointed party, and appointed party roles.
- Common failures: standards on paper, no CDE discipline, no requirements.
- Building the standards foundation pack.

Day 2: Information Requirements and Appointments

- Organizational information requirements definition.
- Asset information requirements and project information requirements.
- Exchange information requirements in tender documents.
- Level of information need definitions and application.
- Pre-appointment and post-appointment BIM execution plans.
- Capability and capacity assessment of appointed parties.
- Building the information requirements pack.

Day 3: Common Data Environment and Information Delivery

- CDE architecture and platform selection criteria.
- Workflow states: work in progress, shared, published, archive.
- Information container naming conventions and metadata.
- Revision coding, suitability codes, and status control.
- Permissions, access control, and transmittal discipline.
- Federation strategy and coordination practice.
- Building the CDE design pack.

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Day 4: Delivery Phase and Operational Phase Management

- ISO 19650-2 delivery phase information management tasks.
- Collaborative production and information delivery planning.
- Project information model development and verification.
- ISO 19650-3 operational phase and asset information model.
- Handover, asset register, and digital twin foundations.
- Information exchange, validation, and acceptance.
- Building the delivery and operational pack.

Day 5: Security, Governance, and Implementation

- ISO 19650-5 security-minded approach and threats.
- Information security alignment with ISO/IEC 27001.
- Information management governance and audit trails.
- Measuring information management maturity.
- Preventing distortion: fabricated status and unverified models.
- Implementation roadmap, training, and change management.
- Personal action plan and continuous improvement.

Conclusion

By successfully completing ISO 19650 Implementation and Management, participants will have acquired a practical command of the ISO 19650 series, information requirements, the Common Data Environment, information delivery, operational phase asset information, and security-minded information management. They will know how to write exchange information requirements that suppliers can act on, configure a CDE with the four workflow states, and verify information rather than accepting it on trust. In addition, the course prepares delegates to govern information across design, construction, and operation without losing the thread at handover. As a result, they return to work ready to implement ISO 19650 with discipline. Gentex Training Center delivers this Training Course with a practical, standards-based approach.

FAQs for the ISO 19650 Implementation & Management course

Q1 What is the "ISO 19650 Implementation & Management" course about?

It is a five-day programme on setting up and running building information modelling information management to the international standard. It covers the ISO 19650 series, information requirements and BIM execution plans, the Common Data Environment with its four workflow states, naming conventions and metadata, delivery and operational phase information management, and the security-minded approach.

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Q2 What are the key benefits of the "ISO 19650 Implementation & Management" course?

Participants gain the ability to write exchange information requirements that suppliers can act on, configure a CDE with the four workflow states, and verify information rather than accepting it on trust. They also learn to govern information across design, construction, and operation without losing the thread at handover.

Q3 What skills will I gain from the "ISO 19650 Implementation & Management" course?

Standards foundations with ISO 19650 series application, role definition, and information cycle mapping, requirements work with organizational, asset, project and exchange information requirement definition, level of information need application, BIM execution plan construction, and capability assessment, CDE work with architecture design, workflow state configuration, naming convention and metadata design, revision and suitability coding, permission and access control design, and federation strategy development, and delivery, operations and governance with ISO 19650-2 task application, information delivery planning, project information model verification, ISO 19650-3 operational phase application, asset information model development, handover and asset register design, digital twin foundation planning, information validation and acceptance, ISO 19650-5 security-minded application, ISO/IEC 27001 alignment, governance and audit trail design, maturity assessment, and anti-distortion practice.

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Q4 What tools, methods, or standards are covered in the "ISO 19650 Implementation & Management" course?

The course covers the ISO 19650 series and its relationship to PAS 1192, ISO 19650-1 concepts, principles and terminology, information management functions and roles, the information management cycle across asset life, appointing party, lead appointed party and appointed party roles, common failures across standards on paper, no CDE discipline and no requirements, organizational information requirements definition, asset information requirements and project information requirements, exchange information requirements in tender documents, level of information need definitions and application, pre-appointment and post-appointment BIM execution plans, capability and capacity assessment of appointed parties, CDE architecture and platform selection criteria, workflow states across work in progress, shared, published and archive, information container naming conventions and metadata, revision coding, suitability codes and status control, permissions, access control and transmittal discipline, federation strategy and coordination practice, ISO 19650-2 delivery phase information management tasks, collaborative production and information delivery planning, project information model development and verification, ISO 19650-3 operational phase and asset information model, handover, asset register and digital twin foundations, information exchange, validation and acceptance, ISO 19650-5 security-minded approach and threats, information security alignment with ISO/IEC 27001, information management governance and audit trails, measuring information management maturity, preventing distortion across fabricated status and unverified models, and implementation roadmap, training and change management.

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Q5 How is the "ISO 19650 Implementation & Management" course applied in real-world practice?

Delegates apply it through standards foundation packs, role matrices, responsibility charts, information management cycle maps, organizational information requirement documents, asset information requirement registers, project information requirement schedules, exchange information requirements in tender documents, level of information need tables, pre-appointment BIM execution plans, post-appointment BIM execution plans, capability assessment questionnaires, capacity assessment records, CDE architecture designs, platform selection matrices, workflow state definitions, naming convention standards, metadata schemas, revision coding schedules, suitability code registers, permission matrices, access control records, transmittal logs, federation strategies, coordination schedules, information delivery plans, task team assignment records, project information model registers, model verification records, asset information model outlines, handover information packs, asset registers, digital twin foundation plans, information exchange schedules, validation records, acceptance records, security-minded assessments, threat registers, ISO/IEC 27001 alignment records, governance frameworks, audit trails, maturity assessment reports, distortion risk assessments, implementation roadmaps, training plans, and change management plans. They also use them to chair information management reviews and to report BIM implementation status to project and asset leadership.