

DIGITAL INNOVATION AND TRANSFORMATION | COURSE BROCHURE

Digital Twin Concepts for Business and Operations

5 days | Classroom training | English

SMART HORIZON

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Course content

Why attend

A digital twin is a live virtual model of a physical asset, process or system, fed by real data and used to monitor, simulate and optimise performance. This course explains how digital twins work, the data and technology they require, where they create value in manufacturing, utilities, buildings and supply chains, and how to plan a realistic first implementation.

Digital twins are widely discussed but often misunderstood. You will learn to separate hype from value and to plan an implementation your organisation can sustain.

Professional Problems This Course Is Designed to Solve

• Difficulty translating subject knowledge into practical workplace decisions.
• Inconsistent approaches to the activities covered in the course outline.
• Lack of a structured plan for applying and reviewing new skills.

Course methodology

Concept sessions, industry case studies, simulation demonstrations and group work on a digital twin business case.

Course objectives

By the end of this course, participants will be able to:
• Explain what a digital twin is and its main types
• Describe the data, sensors and platforms involved
• Identify valuable digital twin use cases
• Assess organisational and data readiness
• Develop a business case and implementation roadmap
• Manage risks including cybersecurity and data quality

Target audience

This course is suitable for:
• Operations and asset managers
• Engineering and maintenance leaders
• Digital transformation professionals
• Facilities and infrastructure managers
• IT and data architects



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Target competencies

Participants will develop competencies in:

- Systems thinking
- Use-case evaluation
- Data architecture awareness
- Business case development
- Technology roadmap planning

Course outline

Day 1: Digital Twin Concepts

09:00–10:08	Definitions and maturity levels
10:08–11:00	Asset, process and system twins
11:00–11:30	**Coffee break**
11:30–11:45	Asset, process and system twins (continued)
11:45–12:53	Simulation versus monitoring
12:53–14:00	Exercise: twin candidates in your work

Day 2: Data and Technology

09:00–10:08	IoT sensors and connectivity
10:08–11:00	Data platforms and integration
11:00–11:30	**Coffee break**
11:30–11:45	Data platforms and integration (continued)
11:45–12:53	Modelling and visualisation
12:53–14:00	Demonstration: a live twin

Day 3: Use Cases

09:00–10:08	Manufacturing and process plants
10:08–11:00	Utilities and infrastructure
11:00–11:30	**Coffee break**



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11:30–11:45	Utilities and infrastructure (continued)
11:45–12:53	Buildings and campuses
12:53–14:00	Case studies of measurable results

Day 4: Planning an Implementation

09:00–10:08	Readiness assessment
10:08–11:00	Pilot scope and success measures
11:00–11:30	**Coffee break**
11:30–11:45	Pilot scope and success measures (continued)
11:45–12:53	Costs and benefits
12:53–14:00	Workshop: business case

Day 5: Scaling and Governance

09:00–10:08	Data governance and security
10:08–11:00	Skills and organisation
11:00–11:30	**Coffee break**
11:30–11:45	Skills and organisation (continued)
11:45–12:53	Vendor selection
12:53–14:00	Implementation roadmap

The timings provided are estimates and may vary depending on the number of participants and the discussions taking place during the sessions. They are indicative only and do not constitute a binding commitment.



Course content

Dates, venues and fees

Current published course plans. Fees are per participant in GBP, excluding unconfirmed taxes.

Venue	Start date	End date	Fee (GBP)
Rome Confirmed dates	16 Nov 2026	20 Nov 2026	**£2,450.–**
Online Confirmed dates	16 Nov 2026	20 Nov 2026	**£1,250.–**
Dubai Confirmed dates	7 Dec 2026	11 Dec 2026	**£3,150.–**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**£1,250.–**
Paris Confirmed dates	4 Jan 2027	8 Jan 2027	**£2,860.–**
Online Confirmed dates	4 Jan 2027	8 Jan 2027	**£1,250.–**
Rome Confirmed dates	25 Jan 2027	29 Jan 2027	**£2,450.–**
Online Confirmed dates	25 Jan 2027	29 Jan 2027	**£1,250.–**
London Confirmed dates	15 Feb 2027	19 Feb 2027	**£2,450.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	15 Feb 2027	19 Feb 2027	**£1,250.–**
Barcelona Confirmed dates	8 Mar 2027	12 Mar 2027	**£2,840.–**
Online Confirmed dates	8 Mar 2027	12 Mar 2027	**£1,250.–**
Frankfurt Confirmed dates	29 Mar 2027	2 Apr 2027	**£2,650.–**
Online Confirmed dates	29 Mar 2027	2 Apr 2027	**£1,250.–**
Amsterdam Confirmed dates	12 Apr 2027	16 Apr 2027	**£2,540.–**
Online Confirmed dates	12 Apr 2027	16 Apr 2027	**£1,250.–**
Dubai Confirmed dates	3 May 2027	7 May 2027	**£3,150.–**
Online Confirmed dates	3 May 2027	7 May 2027	**£1,250.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Kuala Lumpur Confirmed dates	24 May 2027	28 May 2027	**£1,450.-**
Online Confirmed dates	24 May 2027	28 May 2027	**£1,250.-**
Istanbul Confirmed dates	14 Jun 2027	18 Jun 2027	**£2,650.-**
Online Confirmed dates	14 Jun 2027	18 Jun 2027	**£1,250.-**
Cape Town Confirmed dates	5 Jul 2027	9 Jul 2027	**£1,890.-**
Online Confirmed dates	5 Jul 2027	9 Jul 2027	**£1,250.-**
Barcelona Confirmed dates	19 Jul 2027	23 Jul 2027	**£2,840.-**
Online Confirmed dates	19 Jul 2027	23 Jul 2027	**£1,250.-**
Vienna Confirmed dates	9 Aug 2027	13 Aug 2027	**£2,940.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	9 Aug 2027	13 Aug 2027	**£1,250.-**
Dubai Confirmed dates	30 Aug 2027	3 Sept 2027	**£3,150.-**
Online Confirmed dates	30 Aug 2027	3 Sept 2027	**£1,250.-**
Cape Town Confirmed dates	20 Sept 2027	24 Sept 2027	**£1,890.-**
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**£1,250.-**
London Confirmed dates	11 Oct 2027	15 Oct 2027	**£2,450.-**
Online Confirmed dates	11 Oct 2027	15 Oct 2027	**£1,250.-**
Rome Confirmed dates	25 Oct 2027	29 Oct 2027	**£2,450.-**
Online Confirmed dates	25 Oct 2027	29 Oct 2027	**£1,250.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Vienna Confirmed dates	15 Nov 2027	19 Nov 2027	**£2,940.-**
Online Confirmed dates	15 Nov 2027	19 Nov 2027	**£1,250.-**
Cape Town Confirmed dates	6 Dec 2027	10 Dec 2027	**£1,890.-**
Online Confirmed dates	6 Dec 2027	10 Dec 2027	**£1,250.-**

Plan your next step

Dates, availability, exact venue, taxes, inclusions and payment terms require written confirmation. This brochure is not a quotation, registration, booking confirmation or visa invitation. Participants receive a Smart Horizon UK certificate of attendance; programmes are not externally accredited and do not award a professional qualification or designation. Confirm arrangements before booking travel.

For group or in-house training, contact our learning team to discuss your objectives and delivery arrangements.

Contact Smart Horizon

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