



Digital Twins for Senior Leaders

Gemini Leadership Course
in Digital Twin Capability



GEMINI

Digital Twins for Senior Leaders is part of a suite of learning opportunities as a partnership between the Digital Twin Hub and Cranfield University, to help individuals and organisations at different points in their digital twin journeys.

The course provides an international baseline for business competency in digital twin skills and aims to develop awareness, knowledge and knowhow and increased confidence to create solutions using digital twins. Designed for leaders and future leaders engaged in roles that will influence decision-making, Digital Twins for Senior Leaders will help to realise digital transformation and organisational change.

The course addresses the digital twin skills gap by creating understanding and consensus in the market about digital twins, aligning demand and supply for digital twin competency and by encouraging systems thinking as a solution. It delivers a trusted training route with value and impact, mapped to ESG principles.

Digital Twins for Senior Leaders has been scoped alongside asset owners and operators and is founded on the Gemini Principles, National Digital Twin programme and interlinked research from Cranfield University, the Open Data Institute and the Digital Twin Hub community. It is delivered by Cranfield University and by the Digital Twin Hub, in association with policy makers, industry associations, academic experts and practitioners.

Duration and delivery



Active (lecturer-led) sessions

Two hours per week across eight weeks.



Reading time

30 minutes /week.

The course is planned over eight weeks with 16 hours of active learning (remote lectures delivered in real time and recorded for catch-up) and a strategic discussion forum. Lecture sessions will run once a week.

The course is designed to guide with developing a digital twin strategy. Successful completion of this along with participating in the course, results in the award of a Cranfield University Certificate of Attendance.

Fees

£1,950 per course delegate

Key takeaways

- How to appraise a digital twin approach and lead or enable change.
- How to see digital twins as solutions to drive efficiencies and increase productivity.
- How to recognise the relevance of digital twins for society, improving the environment.
- How to prioritise a business strategy for digital twins on the company/sector/policy/digital agenda.
- An understanding of the socio-technical skills needed to build connected digital twins.
- An understanding of systems thinking, agent-based modelling and business planning.
- An understanding of how the world works and the interconnections between systems.
- An understanding of the data management basis for digital twins, including semantic web.
- Learnings from best practice examples.

What you will learn

- Week 1** What is a digital twin and why is it significant to you?
- Week 2** What is value, and could the organisational value creation and purpose change with digital twins?
- Week 3** How do organisations enable sustainable change in the context of digital transformation?
- Week 4** What does the digital twin ecosystem look like?
- Week 5** How do we sustain human-machine interaction in a digital twin environment in tasks/divisions/enterprises
- Week 6** How do organisations position data as a core value creating asset through digital twins?
- Week 7** What new decisions and analytics can organisations make through a digital twin?
- Week 8** What is my organisational strategy with a continuous digital twin over time?

www.cranfield.ac.uk/digital-twins-for-senior-leaders

Who it is for

This course is for leaders and future leaders engaged in roles that will influence decision-making to realise digital transformation and organisational change. They will be the enablers and subsequent end-users of digital twin systems or the translators of digital twin capabilities, rather than those creating the digital twins.

It is designed for those working in asset owner and operator organisations, suppliers and consultants, and suits company or sector-specific cohorts and/or individuals.

Typically, leaders will have roles across a variety of management areas: asset; operations; product; performance; continuous improvement; engineering; maintenance; service; customer; HR and skills development; cost and commercial.

This course defines leadership as an organisational business skill set, as laid out in the National Digital Twin programme's Skills and Capability Framework, for leaders in the critical roles at the heart of the initial framework, as well as those in newer roles.

Associated learning

Digital and Technology Solutions MSc at Cranfield University.

Data and Digital Twins Six online learning modules from DT Hub/Open Data Institute.

Customised programmes available, please enquire.

About Cranfield

As a specialist postgraduate university, Cranfield's world-class expertise, large-scale facilities and unrivalled industry partnerships are creating leaders in technology and management globally.

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in [Cranfield University](https://www.cranfield.ac.uk)

About the DT Hub

The Digital Twin Hub is an internationally-recognised organisation and knowledge-sharing community, hosted on behalf of the UK's Catapult Network at Connected Places Catapult, where it drives the conversation on digital twins across industry, academia and the public sector.

🔗 digitaltwinhub.co.uk

in [Digital Twin Hub](https://www.digitaltwinhub.co.uk)

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Booking

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