



Fraunhofer
ACADEMY

Certification Program

MASTERING DIGITAL TWINS





DIGITAL TWINS – THE KEY GAME CHANGER

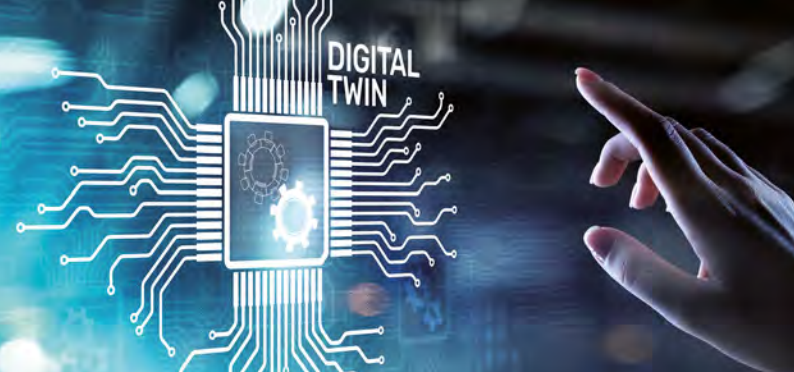
A digital twin represents the reality: It can not only visualize the geometric appearance and structure, but also the behavior of products or systems. It lets reality and virtuality merge, creates transparency within complex engineering and operation processes and is an indispensable tool for the development and operation of cyber physical systems (CPS). Digital twins can assist companies throughout their whole chain of value creation by enabling clarity in the digital world of data and information.

Digital twins are the key game changer in digital transformation and next generation vertical industries. This digital technology makes it possible to follow, steer and control intelligent products in the field and factory operations throughout their lifecycles. Companies have to start learning to customize digital twins to their value creation realities and to design their capabilities accordingly.

Prof. Dr.-Ing. Rainer Stark,
Head of the Virtual Product Creation division
Fraunhofer Institute for Production Systems
and Design Technology IPK

YOUR BENEFITS AT A GLANCE

- »»» Holistic perspective on digital twins as a multi-faceted strategic topic instead of technology-only.
- »»» Three certification profiles on basic level available, tailored to the needs of consultants and managers, solution architects and developers in industry.
- »»» Self-determined extra occupational qualification on digital twins via virtual lectures and online certification.
- »»» Application oriented content – compiled by experienced experts from industry and research.
- »»» Personal certification that sticks with you on your career.



NEW WAYS TO DRIVE BUSINESS VALUE AND NOT LAG BEHIND

Boost your management or engineering career with an indepth understanding of this essential Industry 4.0 tool and stand out with knowledgeable answers to questions about how to realize the potential of a digital twin approach.

“Mastering Digital Twins” is designed as a modular online learning program suitable for different professionals according to their training needs. It will give you an in-depth knowledge about all the lifecycle phases of digital twins (ideation, design, development, operation and end of life), and a clear understanding of their business potential in different industry scenarios.

The course is split into three modules, so you can choose the most relevant skills according to personal profile and interests:

- Digital Twins Business Consultant
- Digital Twins Solutions Architect
- Digital Twins Technical Developer

COURSE INFORMATION

Format: Online learning

Language: English

Certificate: Upon successful examination, participants are granted a certificate from the Fraunhofer Personnel Certification Authority

Learning Packages:

Package 1	Package 2	Package 3	Package 4
Online self-paced learning course:	Online self-paced learning course and online expert seminar:	Online self-paced learning course, online expert seminar and online certification exam:	Online self-paced learning course and online certification exam:
495,- €	995,- €	1685,- €	1185,- €
Online certification exam only: 690,- €			

Inhouse seminars are available on request.

Fraunhofer IPK in cooperation with EIT Digital Professional School



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COURSE STRUCTURE

Pick and choose the certified module that best fits your needs:

Certified Digital Twins Business Consultant



Gain fundamental knowledge of the business potential of digital twins and strategic approaches for their implementation in your company.

Designed for:

Business Developers,
Decision-makers,
Consultants

Certified Digital Twins Solutions Architect



Learn about digital twins' underlying technologies and applications and gain a holistic view of the processes, methods and tools for their implementation.

Operational Managers,
Team Leaders

Certified Digital Twins Technical Developer



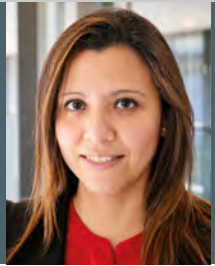
Master the technological approach to create or integrate a digital twin solution tailored to your company's needs.

Technology
Specialists

TARGET GROUP

Target group

This modular program can suit the learning objectives of decision makers, consultants, heads of departments (e.g. production, product development and product managers in R&D) and technology experts (digital factory/product data management/product life-cycle management (PDM/PLM)).



DO YOU HAVE ANY QUESTIONS FOR US?

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[www.academy.fraunhofer.de/
mastering-digital-twins](http://www.academy.fraunhofer.de/mastering-digital-twins)

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