



INDUSTRIE 4.0
MATURITY CENTER



INTERNATIONAL
ACADEMY

RWTHAACHEN
UNIVERSITY

Digital Transformation Expert

Course: October 7-11, 2024

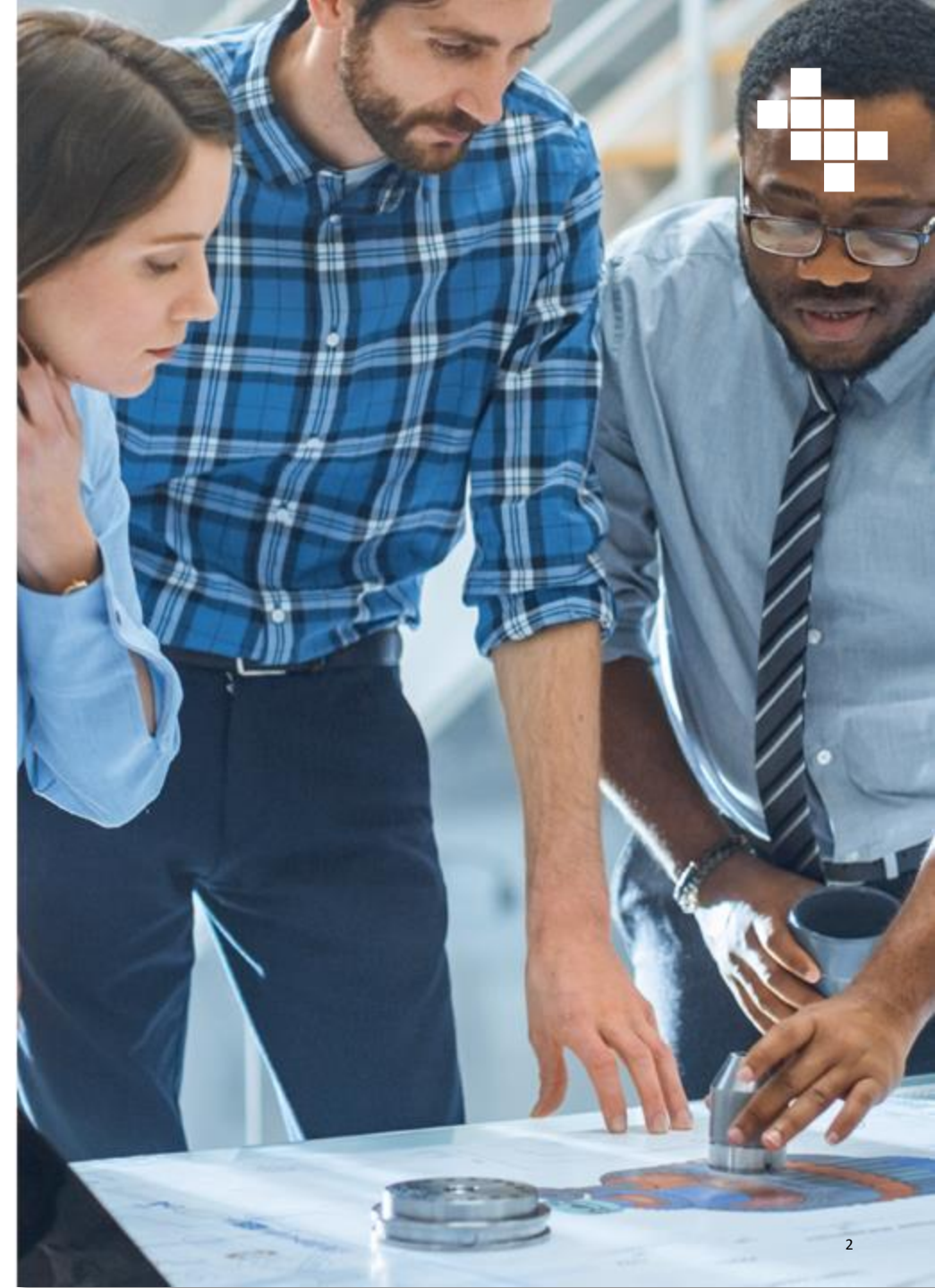
YOUR TRANSFORMATIONAL APPROACH TO BUILD A SUSTAINABLE DIGITALIZATION ...

Industry 4.0 and **digital transformation** offer the potential to optimize processes, develop smart products or establish digital business models. Many companies are prioritizing digital transformation, initiating **prototypes** and **pilots** that demonstrate this potential.

For the digital transformation to succeed plus being successful economically, digital solutions **must be available throughout the company**. Digitalization projects must be **evaluated, coordinated** and **implemented** as part of an overall program. Crucial to success are a central management team, the use of future-proof technologies and the development of digital capabilities in all areas of the company. The responsible employees are also at the **heart of digital transformation**. They must initiate changes in the new subject area of digitalization, involve all stakeholders and implement measures.

This certificate course is aimed at **specialists** and **managers** who are responsible for coordinating and implementing digital transformation in their company. In the "**Digital Transformation Expert**" course certified by the **RWTH International Academy**, you will learn the knowledge, methods and tools to lead your company through the digital transformation in a safe and goal-oriented manner.

With Experts from...



... AND TO IMPLEMENT IT STRATEGICALLY, BY ...



Experts from business and science who have already successfully implemented the digital transformation **teach you about:**



Digitalization's potential

Deriving digitalization potential from corporate strategy.



Management of measures

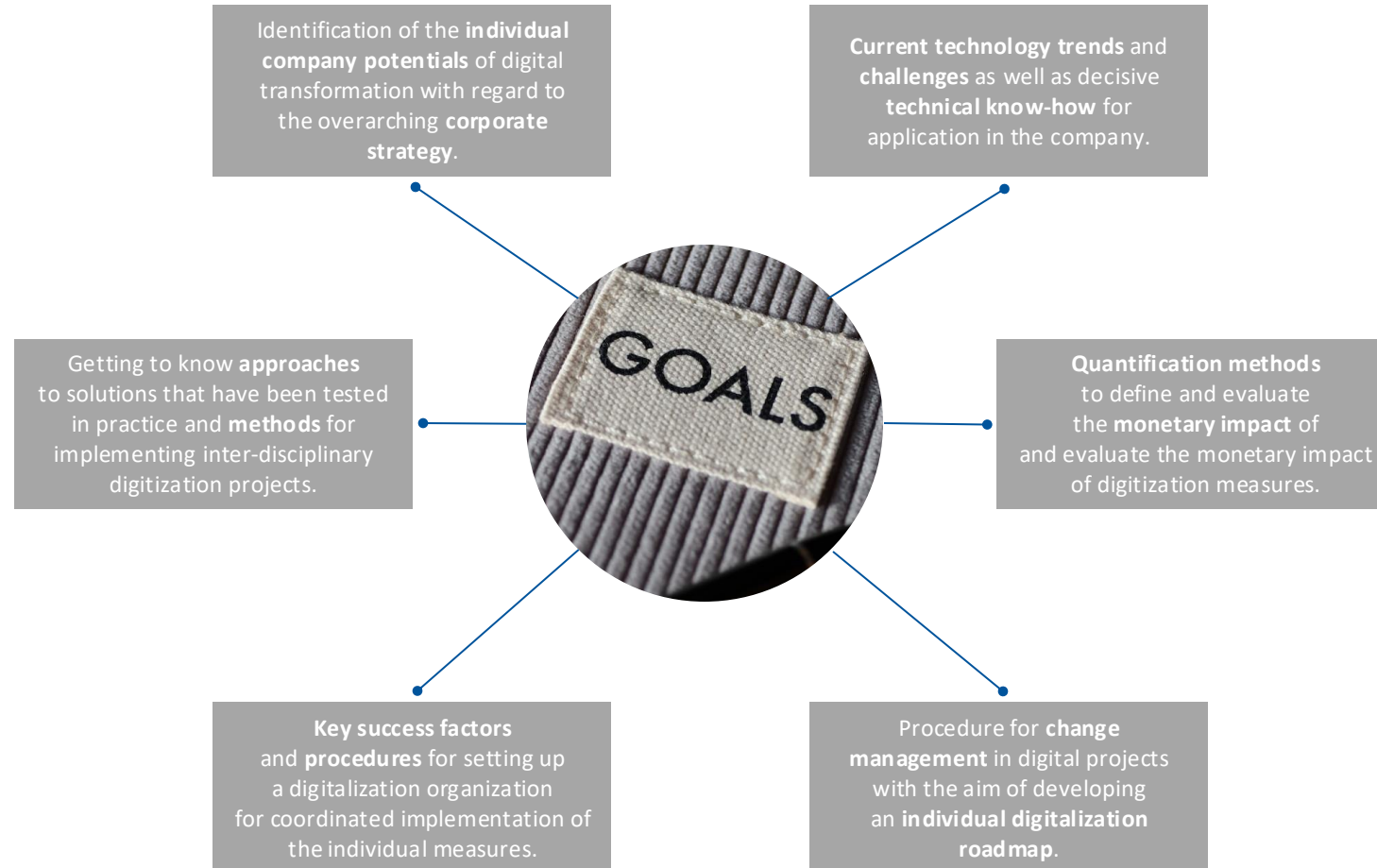
Identification of measures based on the digitalization potentials as well as their quantification, coordination and transfer to a roadmap.



Realization of roadmap

Implementation of the roadmap and initiation of digital transformation in the company.

... LEARNING THE FOLLOWING KEY CAPABILITES.





YOU WILL GAIN KNOWLEDGE IN THE FOLLOWING SUBJECT AREAS:



VISION AND IMPACT

Strategical relevance and **advantages** of the digital transformation as well as relevant **methods** and **framework** such as the **Internet of Production (IoP)** and the **Aachener Digital Architecture Management (ADAM)**.



DIGITAL STRATEGY AND MEASURES

A holistic transformation of a company towards an agile and learning organization by using a **systematic approach**, which offers you **transparency** about your maturity level as well as provides you an individual roadmap.



DIGITAL EXTERNAL EFFECTS

Consideration of different approaches to address external framing conditions such as **cyber-security**, **digital sovereignty**, and **market overviews** of important digital products such as industrial IoT platforms.



TECHNOLOGY TRENDS

Presentation of modern and relevant technological trends that are shaping the digital transformation, such as **process mining**, **IoT platforms**, **Artificial Intelligence** or **low code / no code platforms**.



CHANGE AND ORGANIZATION

Building a sustainable digitalization approach by making it **measurable** over time to derive specific measures and by **adjusting the organization** in that way that it supports the digitalization effort to a high extent.

LEARN ALL TOOLS AND METHODS YOU NEED TO ACHIEVE A SUCCESSFUL DIGITAL TRANSFORMATION OF YOUR COMPANY



VISION & IMPACT

- Welcoming and Introduction
- Industry 4.0: **Why it Matters**
- Workshop: **Smart production** in the Demonstration Factory in Aachen
- Building the **adaptive high-speed company**
- Discussion Session
- Expert lecture

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Joint Evening Event

DIGITAL TRANSFORMATION STRATEGY AND MEASURES

- **Scaling the Digital Transformation:** The Industrie 4.0 Maturity Index
- Expert Lecture
- Empowering **Digitalization Teams**
- **Launching a transformation program**
- **Unlocking Value:** Quantifying the Impact of Digitalization
- Expert Lecture

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DIGITAL EXTERNAL EFFECT & TECHNOLOGY TRENDS

- Modern **industrial IoT architectures**
- **Industrial IoT-Platforms:** The Digital Connected Shopfloor
- Expert lecture
- **Low Code / No Code** Platforms
- **Artificial Intelligence Applications** in Production
- Expert lecture

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Joint Evening Event

Days



LEARN ALL TOOLS AND METHODS YOU NEED TO ACHIEVE A SUCCESSFUL DIGITAL TRANSFORMATION OF YOUR COMPANY



CHANGE & ORGANIZATION

- From beans to byte: **Robust IT architectures for Industrie 4.0**
- **IT Compliance & IT Governance:** Creating a regulatory framework for the digitalization
- Expert lecture
- **New Work:** How Modern Organizations Work
- Impulse & Workshop: **Digital Sovereignty**
- Expert lecture: **Change Management** in Digital Projects

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EXAM AND CLOSING

- **Exam**
- **IoT via Drag & Drop:** Without programing into the Internet of Things
- **Certificate awarding** and graduation

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Days



OUR EXPERTS WHO SHARE BEST PRACTICES AT THE DIGITAL TRANSFORMATION EXPERT COURSE



Trace Denholm
Director of Global Operations Analytics
Medtronic



Dr. Niels Kiupel
Vice President Smart Operations Evonik
Operations GmbH



Sebastian Witt
Head of Smart Factory Solutions
ZF Group



Paco Reina
General Manager Digitalization
Renolit



Christian Starick
Head of Digitalization
Schwarz Produktion



Katharina Berwing
Center Director
Center Integrated Business Applications



Max-Ferdinand Stroh
Information Management
FIR, RWTH Aachen



Christian Hocken, MBA
Managing Partner
Industrie 4.0 Maturity Center



Dr.-Ing. Sebastian Schmitz
Senior Manager
Industrie 4.0 Maturity Center



Digital Transformation Expert – Course Schedule



Timetable	Vision & Impact	Digital transformation strategy & measures	Technology Trends	Change & Organization	Exam & Closing
	Monday 07.10.2024	Tuesday 08.10.2024	Wednesday 09.10.2024	Thursday 10.10.2024	Friday 11.10.2024
8:30	Introduction & Welcome			Keynote From beans to bytes: Robust IT architectures for Industry 4.0	Exam
9:00	Keynote Industrie 4.0: Shaping the Future	Keynote Scaling the Digital Transformation	Keynote Modern industrial IoT architectures		
9:30				Keynote IT Compliance and Governance: Overcoming challenges in the digital era	
10:00		Expert lecture	Keynote Industrial IoT-Platforms: The digitally connected shopfloor		Workshop IoT via Drag-and-drop: Intro to the IoT without coding
10:30	Keynote Building the adaptive high-speed company				
11:00			Expert lecture	Expert lecture	
11:30	Workshop Building the adaptive high-speed company	Keynote Empowering Digitalization Teams			
12:00					Certificate awarding and completion
12:30				Lunch break	
13:00	Lunch break	Lunch break	Lunch break		
13:30				Keynote New Work: How modern organizations work	
14:00	Expert lecture	Workshop Launching a transformation program	Keynote Low Code/No Code platforms		
14:30					
15:00	Workshop Smart production at the Demonstration Factory Aachen	Keynote Unlocking Value: Quantifying the Impact of Digitalization	Keynote AI applications in production	Keynote incl. Workshop Digital sovereignty: Fields of action and strategies for a sustainable transformation	
15:30					
16:00			Expert lecture		
16:30	Expert lecture	Expert lecture		Expert lecture	
17:00					
17:30				Exam preparation	
18:00					
19:00					
19:30	Evening event		Evening event		
20:00					



Digital Transformation Expert: October 7-11, 2024:
Managing the digital transformation in your company

- Sessions with experts from industry & science
- Interactive Workshops, Lectures, and Focus Sessions
- Evening events with speakers and participants