

The image features a large commercial airplane on a runway at sunset. Overlaid on the left side of the fuselage is a semi-transparent blue technical diagram of a jet engine, showing internal components like the compressor and turbine. Another similar diagram is overlaid on the landing gear area. The Siemens logo and tagline are in the top right corner.

**SIEMENS**

*Ingenuity for life*

Competence development  
for the aerospace industry

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# Developing the skills of tomorrow's aerospace industry

The aerospace industry is facing the challenge of building more aircrafts with a shorter time to market. The new planes will be lighter, faster, and more efficient. These aircrafts of the future drive new demands on product design, production planning, engineering, and execution.

For aerospace manufacturers, maximizing productivity and optimizing the total cost of ownership of production equipment are the crucial success factors to maintain long-term competitive advantage.

This requires a well-educated workforce that is able to cope with rapid technology developments and is at the forefront of digital innovation. Furthermore, traditional manufacturing is also subject to innovation, especially in engineering software, automation and control products, and usability:

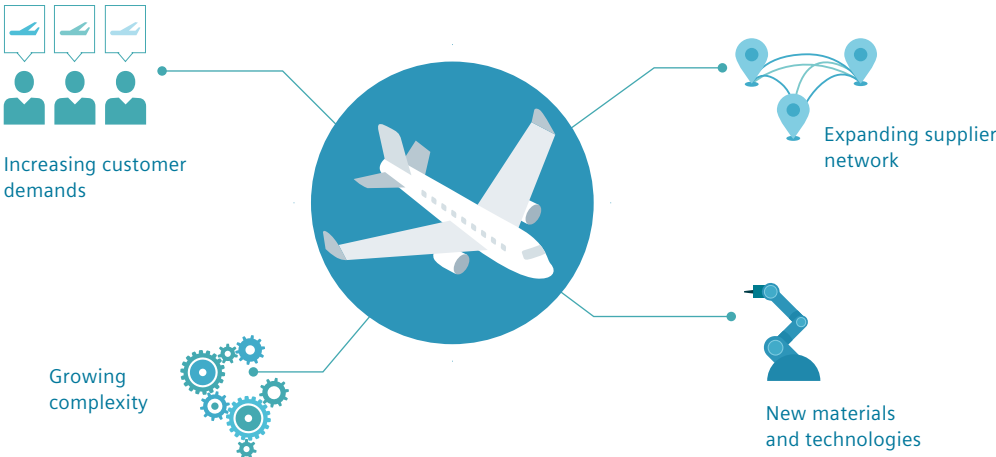
the hard skills required to stay on top need continuous updating from certified experts and hands-on training.

Siemens training courses are based on our long-standing focus on aerospace manufacturing and our comprehensive portfolio that provides tailored solutions for the aerospace industry. Thanks to our global presence, we help our international customers drive their digital transformation with our Digital Enterprise portfolio.

## Your benefits

- Learning programs tailored to your priorities
- Flexible classroom courses on your site
- Higher qualification of employees increases productivity
- Global support and training in the local language

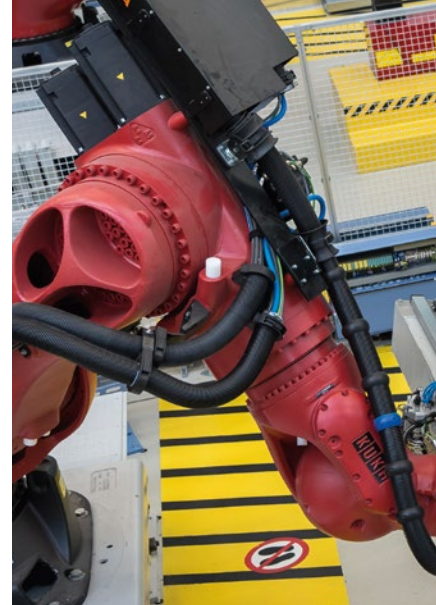
## The challenges in aerospace manufacturing





*Our expectations regarding the course and the adaptability to our requirements were surpassed significantly. What's more, there's a great training environment and competent, highly motivated trainers.*

**Michael Thal, Manager NC Programming  
Premium AEROTEC**



## Core automation training

Automation is crucial for increasing productivity, flexibility, and efficiency in aerospace manufacturing. At Siemens you'll find thorough training for our entire portfolio, covering all specific aspects that are relevant for the aerospace industry.

Our offering comprises CNC and industrial automation training, engineering and visualization, industrial communication networks, and industrial identification technology.

### Top training for aerospace



#### CNC automation systems

Programming, commissioning, maintenance – a typical learning path is our SINUMERIK Service and Start-up course, consisting of up to 25 days of practical training.



#### Industrial automation systems

Several training courses address SIMATIC S7-1500, TIA Portal, SIMATIC S7-300, STEP 7 programming language, drive technology, and a lot more.



#### Operator control and monitoring systems

Develop detailed knowledge about monitoring and SCADA solutions for your factory: SIMATIC WinCC in TIA Portal, SIMATIC WinCC V7x, SIMATIC WinCC flexible.



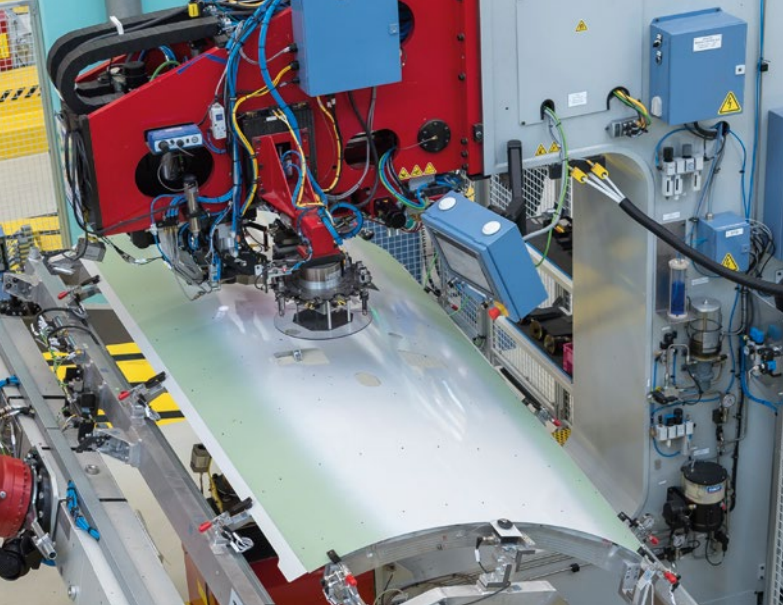
#### Industrial communications

Learn how to use industrial communication components such as PROFINET, PROFIBUS, Industrial Ethernet, and Industrial Remote Communication.



#### Industrial identification

Discover the operating principle and opportunities for realizing various RFID solutions with a focus on SIMATIC Ident.



## Development programs tailored to the industry

The digital transformation of the aerospace industry is in full swing. To keep up, it's important to master the essentials of digitalization, thus laying the groundwork for using its potential.

Siemens provides tailored training programs that help aerospace manufacturers tackle effectively the latest trends and the digital transformation of their company.

### Development paths for aerospace



#### Automation standardization concepts

Standardization is the basis for optimizing engineering workflows and for reducing total cost of ownership of the installed base.



#### Digitalization for decision makers

Digitalization is important – but how to start, where to optimize, and what to do next? Siemens training programs provide decision makers with the big picture and the right tools in the industrial environment.



#### Simulation and virtual commissioning

Simulating new products and machines enables testing for failures to achieve first-time-right, and reduce risk and effort in production.



#### Networking and IT security concepts

With increasing digitalization, security for automation becomes more and more important. Siemens provides training for a holistic cybersecurity concept that comprises different layers.



### NX Virtual Machine Tool Services

#### Shifting non-productive machine time to the digital twin

Introducing new parts in production means non-productive time: this can be shifted to the digital twin instead. To make this possible for your machine tools, we offer NX Virtual Machine Tool Services. Based on the NX CAM software suite, we create an exact virtual representation based on a 3D model of your machine and the virtual operating system of the SINUMERIK CNC.

Our experts help you along the complete life cycle of the digital twin, from the creation of the model, the integration into your engineering process, to the training of your employees and future updates.

[siemens.com/motioncontrolservices](https://www.siemens.com/motioncontrolservices)

# SITRAIN – Digital Industry Academy

## SITRAIN open



### Knowledge you can always find

SITRAIN open bundles useful information, worthwhile data and up-to-date expert knowledge about Siemens products for industry. Search it anytime, find anything – and always the right stuff.

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## SITRAIN access



### Knowledge that gets you ahead

SITRAIN access is learning in the digital age. It offers you individualized ways to build your knowledge, and access to exclusive digital training courses. Take advantage of sustainable learning success with a wide range of learning methods. Improve your skills – whether working in groups with others, or by yourself. Whenever, wherever and however you need to.

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## SITRAIN personal



### Knowledge you can experience

We all want to learn from the best. And SITRAIN personal's training courses let you benefit from our well-practiced trainers' expert knowledge, along with direct access to our training equipment. That's the best way to convey knowledge – whether at your company or in our training classrooms.

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