

Composite Materials – Basic Training

From theory to practice

Theory

Duromeric and thermoplastic materials



Manufacturing processes for composite parts

Testing processes for composite parts

Assembly of composite materials

Practice

Demonstration of the materials and properties



Demonstration of the manufacturing processes in practice



Demonstration of the testing processes in practice



Demonstration of the assemblyprocesses in practice

Objectives

- Create a knowledge base for composite materials and processes
- Create awareness of all possible materials, processes, process chains, applications, potentials and limits.





<u>Details</u>

- Duration: 2 working days (8h per day).
- Language: English (German on demand).
- Location: CTC GmbH, Airbusstrasse 1, 21684 Stade, Germany.
- Target group: People and companies who wish to gain initial experience and an overview in the field of composite materials
- Number of participants: 4 to 6 (minimum / maximum).
- Focus:
- Creating the theoretical basis for assessing composite materials and processes
- Understand the implications of material and processes through practical demonstrations

Costs

• The course can be booked individually by companies and can be tailored to specific requirements.

Contact

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Composite Materials – Advanced Training

Theory & practice for industrial AM in the aviation industry

Theory

Duromeric and thermoplastic materials

Carbon, Glass and other commonly used fibres

Manufacturing processes for composite parts

Testing processes for composite parts

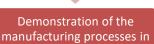
Assembly of composite materials

Fundamentals of composite mechanics

FEM-simulation of composites

Practice

Demonstration of the materials and properties



Demonstration of the testing processes in practice

practice

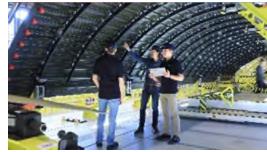
Demonstration of the assembly processes in practice

Application of the composite mechanics to calculate the properties of laminates

Objectives

- Create a knowledge base for composite materials and processes
- Create awareness of all possible materials, processes, process chains, applications, potentials and limits.





<u>Details</u>

- Duration: 5 working days (8h per day).
- Language: English (German on demand).
- Location: CTC GmbH, Airbusstrasse 1, 21684 Stade, Germany.
- Target group: People and companies who wish to gain initial experience and an advanced overview in the field of composite materials
- Number of participants: 4 to 6 (minimum / maximum).
- Focus: Creating the theoretical basis for assessing composite materials and processes
 - Understand the implications of material and processes through practical demonstrations
 - Understand basic mechanical theory and proceses to design and optimize composite parts

Costs

The course can be booked individually by companies and can be tailored to specific requirements.

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