



The Rohde & Schwarz Technology Academy

PRACTICAL KNOWLEDGE.

INDUSTRY INSIGHT. REAL EXPERTS.

You're in great hands.

ROHDE & SCHWARZ

Make ideas real



OUR PORTFOLIO

RF BASICS



ANTENNAS & PROPAGATION



RF COMPONENTS & SYSTEMS



EMC TEST & MEASUREMENT



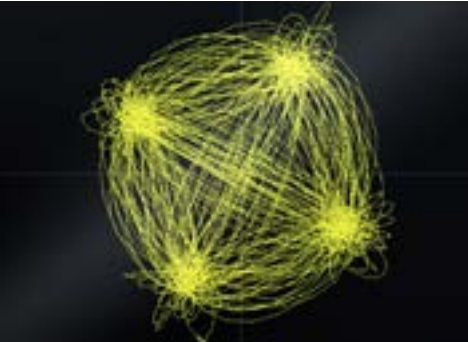
RF TEST & MEASUREMENT



RF AND HIGH-SPEED DIGITAL PCB DESIGN



MODULATION METHODS



WIRELESS COMMUNICATION



INSTRUMENT OPERATION



2G TO 5G AND TECHNOLOGY



AVIONICS & NAVIGATION TESTING



PRACTICAL KNOWLEDGE.

All of our courses are designed and delivered with realworld applications in mind. You will be able to apply your newly acquired knowledge, combined with proper certification, to your workplace, increasing both your own and your employer's productivity.

INDUSTRY INSIGHT.

With decades of radio frequency expertise, combined with years of industry specialization, Rohde & Schwarz offers unique industry insights through the best technical training courses available on the market.

REAL EXPERTS.

The Rohde & Schwarz Technology Academy helps technical professionals develop valuable skills and gain deep knowledge through a range of high-quality and practical training courses delivered by real-world experts, certified at manufacturer's quality.

Find more information:

<https://training.rohde-schwarz.com>

OUR PORTFOLIO IN DETAIL

RF BASICS

The only things you need to know about electrical engineering are voltage, current and Ohm's law – isn't that right? It's certainly not enough for state-of-the-art electronics, which operates at high frequencies and with high speed digital signals. It's about electric and magnetic fields, wavelengths, amplitudes and phases. At Rohde&Schwarz, RF engineering is our core competence, including communications, broadcasting, radar and navigation. Our courses convey the basics of this sophisticated technology.

ANTENNAS & PROPAGATION

Wireless communications, broadcasting, radar and many applications are all based on the transmission of radio signals. The propagation of electromagnetic waves is fundamental to these technologies, and antennas are a significant means for this. At Rohde&Schwarz, we have many decades of experience in developing antennas. Our courses convey insights into the complex theory of wave propagation and describe how antennas work, different types of antennas and characteristics of antennas.

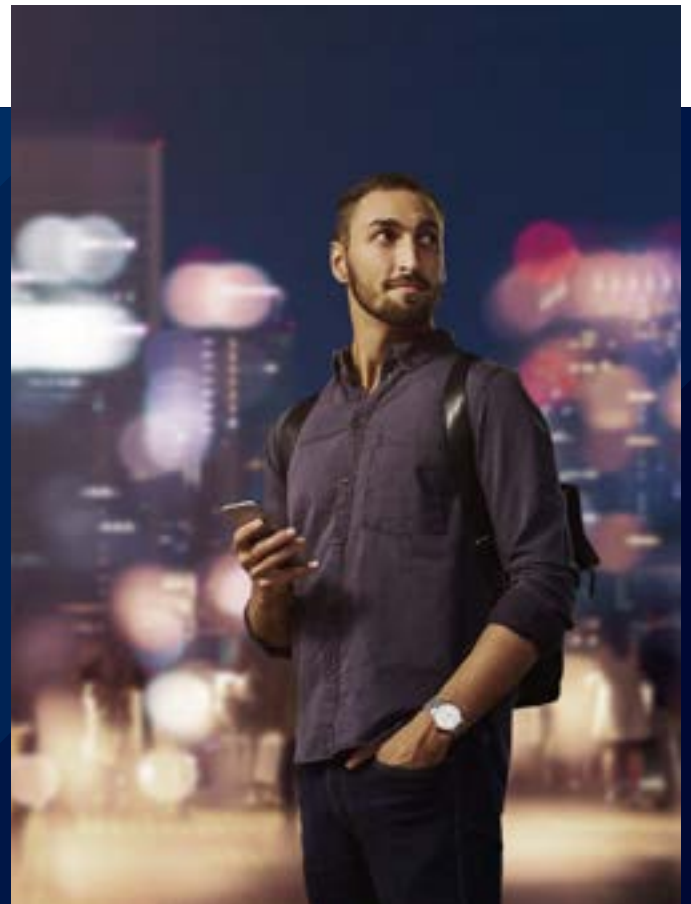


RF COMPONENTS & SYSTEMS

RF systems, such as transmitters and receivers, consist of a series of components that handle signals on their way from the system input to the output. These components include amplifiers, filters, mixers, oscillators, couplers, diplexers and much more. Our courses give development engineers a basic understanding of the mode of operation and characteristics of these components, which they need for good designs and efficient testing.

2G TO 5G TECHNOLOGY

The evolution of mobile communications standards is accelerating. 5G is now being deployed, and 6G is the subject of intensive research. T&M equipment from Rohde&Schwarz has been supporting this development since the early days in the 1980s. Our courses convey the basics of mobile communications technology in the various generations and enable participants to help shape tomorrow's innovative mobile communications systems.



OUR PORTFOLIO IN DETAIL

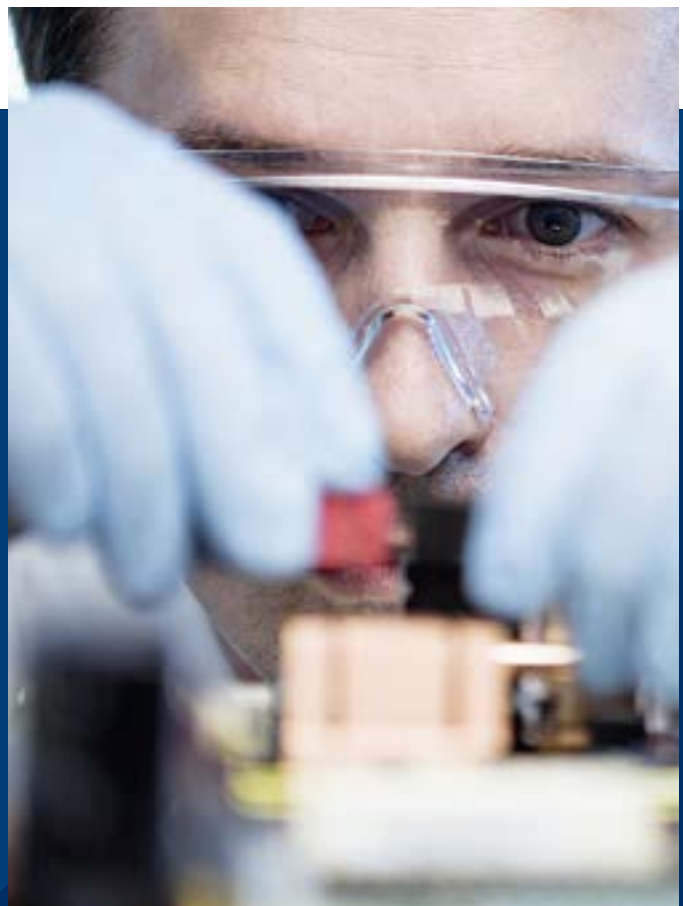
EMC TEST & MEASUREMENT

Electromagnetic compatibility is indispensable for the trouble-free operation of electrical and electronic devices. Demonstrating EMC compliance is mandatory before a new product can be put on the market. As a leading provider of EMC test solutions, Rohde&Schwarz has extensive experience in all aspects of EMC. Our courses enable participants to design EMC-compliant devices and to perform the required measurements. This avoids problems during compliance testing and shortens time to market.



RF TEST & MEASUREMENT

Testing RF systems and components requires specific measuring instruments and measurement methods. Ever higher frequencies and wider bandwidths are also making test and measurement equipment increasingly complex. Rohde&Schwarz offers advanced RF test and measurement equipment for numerous applications. Our T&M equipment courses enable participants to select suitable measuring instruments for their measuring tasks and use them efficiently.



RF AND HIGH SPEED DIGITAL PCB DESIGN

Ever higher frequencies and data rates are making PCB design harder and harder. Dimensions are getting smaller and tolerances are getting tighter. Parasitic effects, losses, crosstalk and EMC issues are on the rise. Our courses on PCB design describe the difficulties and give participants recommendations and guidelines for designing and testing reliable PCB's.

AVIONICS AND NAVIGATION TESTING

Extremely high precision is vitally important in avionics, satellite navigation and radio navigation. Rohde&Schwarz T&M equipment for satellite navigation and radio navigation has been making a significant contribution to this for many years. Our courses convey the basics of satellite navigation and describe how to ensure the precision of the equipment.



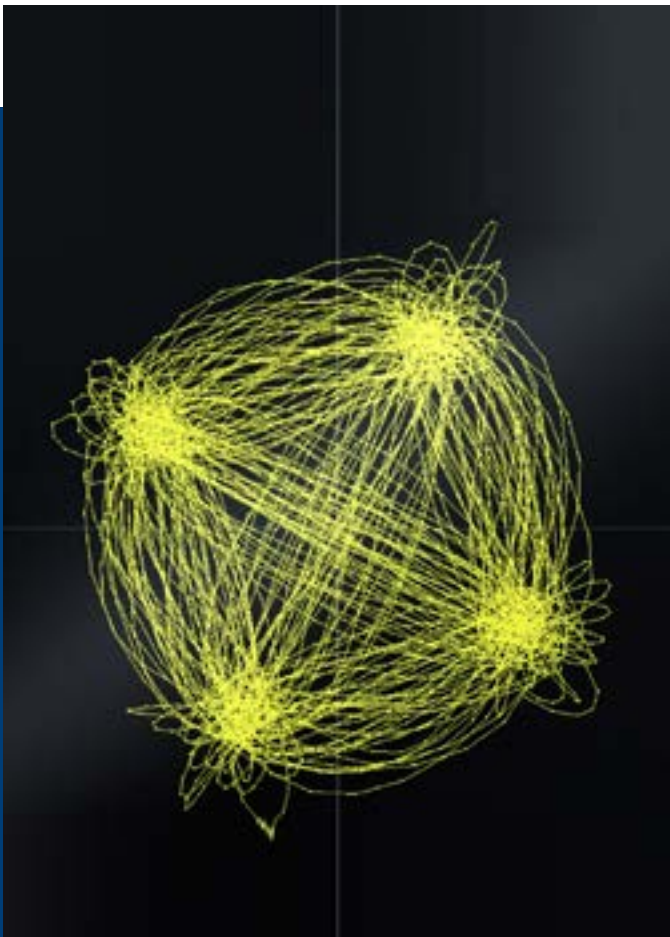
OUR PORTFOLIO IN DETAIL

MODULATION METHODS

Advanced mobile communications and broadcasting systems support high data transmission rates. This involves complex digital modulation methods and error correction mechanisms. Sophisticated measuring instruments are required to generate and analyze these signals. Our courses convey the basics of digital modulation and demodulation. They describe the essential characteristics of digital transmitters and receivers, as well as the measurements needed to determine these characteristics.

WIRELESS COMMUNICATIONS

Wireless communications systems in the unlicensed ISM bands form the basis for the connected world of today and tomorrow. The best known are Bluetooth®, ultrawideband and the various versions of the WLAN standard IEEE 802.11. Rohde&Schwarz T&M equipment enables measurements on wireless communications devices in all phases of the product life cycle. Our courses convey the basics of various standards. They describe the modulation and coding methods used, making it easier for participants to get started with wireless communications technology.



INSTRUMENT OPERATION

These specific courses are designed to explain you the operation of selected Rohde&Schwarz instruments. The instrument functions are described in relation to possible areas of application. In practical exercises, users learn how to configure suitable instrument settings for the measuring task concerned. This ensures more efficient use of the instrument and optimal measurement results.



Find our
trainings here

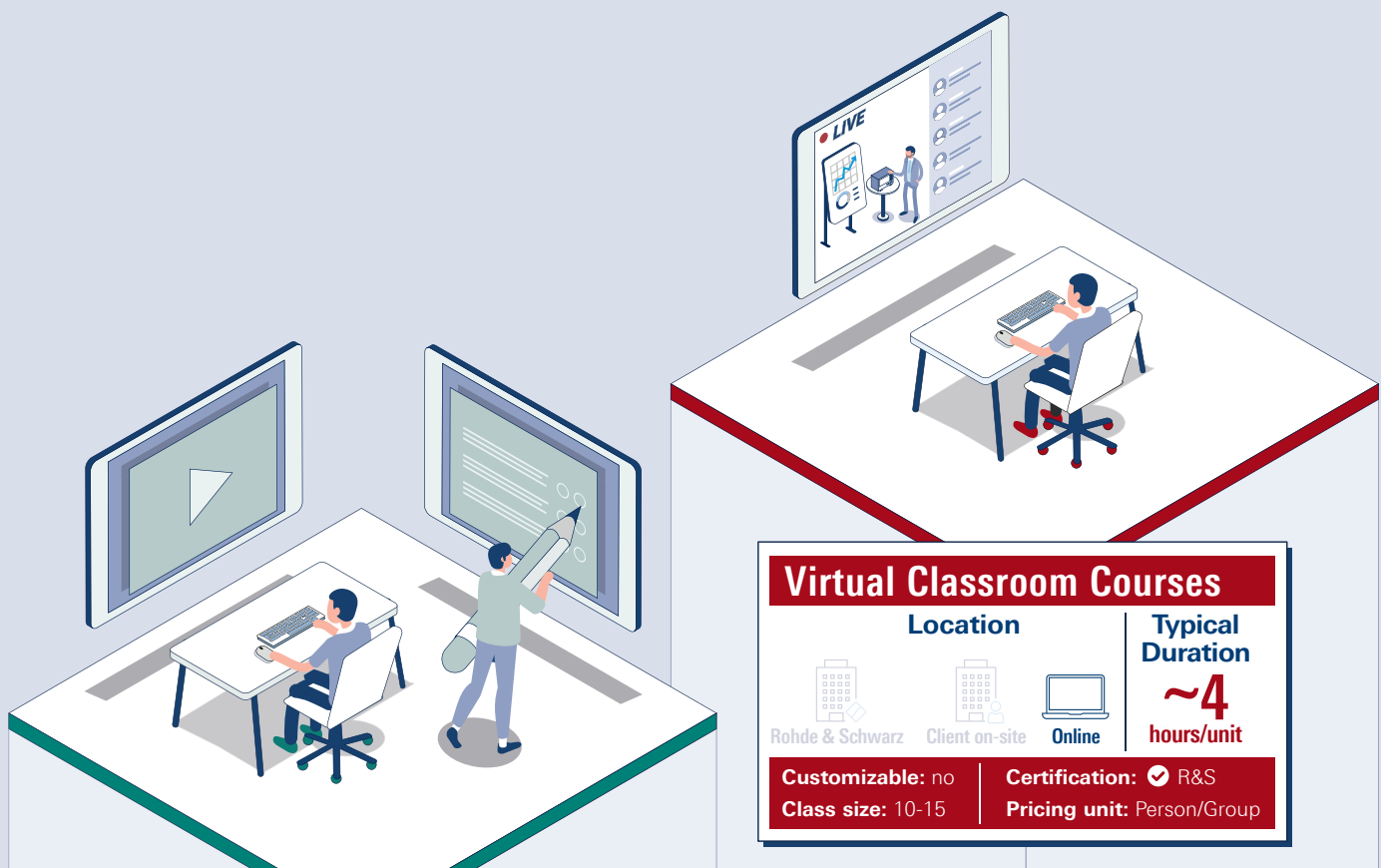
WHAT'S YOUR IDEAL LEARNING APPROACH?

On-demand online courses

Whether at the office, while working from home or while commuting, in the morning or in the evening – our online courses offer you fully flexible learning. The courses consist of small units (around 30 to 60 minutes each) and can be accessed at any time.

Virtual classroom courses

If you prefer courses presented by a real person but want to save travel time and expenses, our virtual classroom courses are the right choice. The trainer stands in front of the camera, talks live, and can answer your individual questions during the course.



On-demand Online Courses		
Location		
Rohde & Schwarz	Client on-site	Online
		Typical Duration ≥30 minutes/unit
Customizable: no	Certification: <input checked="" type="checkbox"/> IEEE	
Class size: 1	Pricing unit: Person	

Virtual Classroom Courses		
Location		
Rohde & Schwarz	Client on-site	Online
		Typical Duration ~4 hours/unit
Customizable: no	Certification: <input checked="" type="checkbox"/> R&S	
Class size: 10-15	Pricing unit: Person/Group	

YOU CAN CHOOSE BETWEEN FOUR TYPES OF TRAININGS:

Classroom courses

This is the traditional form of training. You learn together with other participants in one-day or multi-day seminars. Classroom courses usually also include practical exercises on equipment.





Classroom Courses	
Location  Rohde & Schwarz  Client on-site  Online	
Typical Duration 1-3 days	
Customizable: no Class size: 10-15	Certification: <input checked="" type="checkbox"/> R&S Pricing unit: Person/Group

Tailored courses

If you have special training needs and cannot find a suitable course, please contact us. We offer you training tailored to your personal needs, either at your premises, at the Rohde & Schwarz Training Center or at one of R&S worldwide subsidiaries.



Tailored Courses	
Location  Rohde & Schwarz  Client on-site  Online	
Typical Duration 1-5 days	
Customizable: yes Class size: 2-20	Certification: <input checked="" type="checkbox"/> R&S Pricing unit: Group

Service at Rohde & Schwarz You're in great hands

- ▶ Worldwide
- ▶ Local and personalized
- ▶ Customized and flexible
- ▶ Uncompromising quality
- ▶ Long-term dependability

Rohde & Schwarz

The Rohde & Schwarz technology group is among the trailblazers when it comes to paving the way for a safer and connected world with its leading solutions in test & measurement, technology systems and networks & cybersecurity. Founded more than 85 years ago, the group is a reliable partner for industry and government customers around the globe. The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

www.rohde-schwarz.com

Sustainable product design

- ▶ Environmental compatibility and eco-footprint
- ▶ Energy efficiency and low emissions
- ▶ Longevity and optimized total cost of ownership

Certified Quality Management

ISO 9001

Certified Environmental Management

ISO 14001

Rohde & Schwarz training

www.training.rohde-schwarz.com

Rohde & Schwarz customer support

www.rohde-schwarz.com/support

