DESTINATION:
KNOWLEDGE

MathWorks®

Course List

Partner with MathWorks on your learning journey. Find everything you need to get started, including course descriptions and additional information, at *mathworks.com/get-training*.

MATLAB®

FUNDAMENTAL

- MATLAB Fundamentals
- MATLAB Fundamentals for Automotive Applications
- MATLAB Fundamentals for Aerospace Applications
- MATLAB for Financial Applications

INTERMEDIATE

- Wireless Communications Systems Design with MATLAB and USRP® Software-Defined Radios
- Machine Learning with MATLAB ▲ TRENDING
- Deep Learning with MATLAB ▲ TRENDING
- MATLAB for Data Processing and Visualization
- MATLAB Programming Techniques
- Statistical Methods in MATLAB
- Optimization Techniques in MATLAB
- Image Processing with MATLAB
- Building Interactive Applications in MATLAB
- Processing Big Data with MATLAB
- Accelerating and Parallelizing MATLAB Code
- Signal Preprocessing and Feature Extraction for Data Analytics with MATLAB
- Signal Processing with MATLAB
- Computer Vision with MATLAB
- Automated Driving with MATLAB
- Object-Oriented Programming with MATLAB ▲ TRENDING

ADVANCED

- MATLAB to C with MATLAB Coder™
- Designing LTE and LTE Advanced Physical Layer Systems with MATLAB ▲ TRENDING

SIMULINK®

FUNDAMENTAL

- Simulink for System and Algorithm Modeling
- Simulink for Automotive System Design
- Signal Processing with Simulink
- Simulink for Aerospace System Design

INTERMEDIATE

- Communication Systems Modeling with Simulink
- Control System Design with MATLAB and Simulink
- Integrating Code with Simulink
- Modeling Physical Systems with Simscape™
- Modeling Driveline Systems with Simscape
- Modeling Fluid Systems with Simscape
- Modeling Electrical Power Systems with Simscape
- Modeling Multibody Mechanical Systems with Simscape

ADVANCED

- Programming Xilinx® Zynq® SoCs with MATLAB and Simulink ▲ TRENDING
- Embedded Linux® and System Integration with Zynq
- Simulation-Based Testing with Simulink
- Simulink Model Management and Architecture ▲ TRENDING
- Generating HDL Code from Simulink ▲ TRENDING
- DSP for FPGAs

STATEFLOW®

FUNDAMENTAL

- Stateflow for Logic-Driven System Modeling
- Stateflow for Automotive Applications

CODE GENERATION

FUNDAMENTAL

- Testing Generated Code in Simulink

ADVANCED

- Generating HDL Code from Simulink ▲ TRENDING
- Programming Xilinx Zynq SoCs with MATLAB and Simulink ▲ TRENDING
- Embedded Linux and System Integration with Zynq
- Embedded Coder® for Production Code Generation
- MATLAB to C with MATLAB Coder
- Code Generation for AUTOSAR Software Components ▲ TRENDING
- Software-Defined Radio with Zynq Using Simulink
- Real-Time Testing with Simulink Real-Time™ and Speedgoat Hardware

POLYSPACE® PRODUCTS

ADVANCED

- Polyspace for C/C++ Code Verification

Why Invest in MathWorks Training?

We have the exclusive product knowledge to give you expert instruction. Our training employs industry-accepted best practices for adult learning and technical instruction. It covers the basics of working with MATLAB and Simulink as well as intermediate and advanced techniques that address complex workflows and niche applications.

Investing in proven training solutions from MathWorks produces numerous benefits for both the short and long term.

Improve efficiency and productivity.

The cost of engineers learning on their own can quickly exceed the cost of a class. MathWorks has done the research and built a curriculum that enables users to leverage our tools and hit the ground running.

Learn from MATLAB and Simulink experts.

MathWorks training instructors are engineers themselves, with advanced degrees and years of industry experience. In addition, they hold instructor/facilitator certification.

Access the most up-to-date courses.

Course developers use new products months before they are released and are always current with the latest trends and software features, ensuring you stay competitive.

Get hands-on, personalized training and instruction.

Instructors use a variety of techniques—including a "presentation, practice, test" approach to learning—to reinforce concepts and build proficiency.

Achieve measurable results.

According to post-training surveys, teams who receive 40 hours of training meet project objectives three times as often as those who receive 30 hours or less. This increase in training time raises the likelihood of meeting objectives by 90%.

98%
of attendees rated our instructors as subject matter experts

95%
of attendees said coursework had real-world application to their jobs

96%
of attendees surveyed would recommend the course to a friend or colleague

144%
average increase in competence with MATLAB after training

60
average number of development hours to create one hour of training

104%
average increase in productivity with MATLAB after training

Try a Course Now for Free

Introductory courses such as MATLAB Onramp and Simulink Onramp get you up to speed quickly and easily. Each highly interactive tutorial contains a set of learning objectives designed to help participants learn the essentials and master necessary skills right within the product. Our hands-on approach enables you to immediately practice, apply, and evaluate your knowledge.

"The quality of the training from MathWorks was truly beyond my expectations. The training materials, examples, and exercises were prepared to ensure quick ramp-up in learning the tool. I feel more confident taking on greater challenges in my job, and my skills and job marketability have been boosted as a result."

— ARASH SOLEIMANI,
   BOMBARDIER TRANSPORTATION

Have MathWorks Come to You

Available worldwide, onsite training is ideal for larger groups or those who need customized instruction. We train thousands of customers every year, and cover a range of industrial applications. By tapping into a vast content library as well as developing material from scratch, instructors can tailor the curriculum with company- or industry-specific examples relevant to your team's specific goals and address challenges familiar to attendees.

MathWorks training services allow organizations to address their unique training needs using material that has been refined from our years of experience. As a result of this partnership, customers get more out of their learning investment and maximize their productivity.

Find a Format to Suit Your Needs

Advance your MATLAB and Simulink skills how, when, and where it works best for you. Course formats accommodate a variety of learning styles and organizational requirements. If you don't see what you're looking for, MathWorks training staff are available to consult with you and develop a customized plan.

INSTRUCTOR-LED CLASSROOM

Courses are offered at MathWorks facilities, your location, and public sites around the world.

INSTRUCTOR-LED ONLINE

Live, online courses are led in real time by MathWorks instructors and contain the same course content and materials used in the classroom setting.

SELF-PACED

Learn MATLAB and Simulink online with our interactive courses containing demonstrations, exercises, and quizzes. The flexible format suits busy schedules, and users have around-the-clock access for six months.

Get Started on the Right Path

Learning paths aid in building a proper foundation with MATLAB and Simulink and enable you to get the most out of your products. These paths provide a suggested sequence of courses based on your particular area of interest. For information on prerequisites and other learning paths not listed here, visit *mathworks.com/get-training*.

Path	Course 1	Course 2	Course 3	Course 4
DATA SCIENCE	MATLAB Fundamentals	MATLAB for Data Processing and Visualization	Machine Learning with MATLAB	Deep Learning with MATLAB
PROGRAMMING AND APPLICATION DEVELOPMENT	MATLAB Fundamentals	MATLAB Programming Techniques	Accelerating and Parallelizing MATLAB Code	Optimization Techniques in MATLAB
IMAGE PROCESSING AND COMPUTER VISION	MATLAB Fundamentals	Image Processing with MATLAB	Computer Vision with MATLAB	Automated Driving with MATLAB
SIGNAL PROCESSING AND COMMUNICATIONS	MATLAB Fundamentals	Signal Processing with Simulink	Signal Processing with MATLAB	Signal Preprocessing and Feature Extraction for Data Analytics with MATLAB
MODELING AND SIMULATION	MATLAB Fundamentals	Simulink for System and Algorithm Modeling	Integrating Code with Simulink	Simulink Model Management and Architecture
CONTROL AND ALGORITHM DESIGN	MATLAB Fundamentals	Simulink for System and Algorithm Modeling	Stateflow for Logic-Driven System Modeling	Control System Design with MATLAB and Simulink
PHYSICAL MODELING	MATLAB Fundamentals	Simulink for System and Algorithm Modeling	Modeling Physical Systems with Simscape	Modeling Multibody Mechanical Systems with Simscape
HDL CODE GENERATION	MATLAB Fundamentals	Signal Processing with Simulink	Generating HDL Code from Simulink	DSP for FPGAs
C CODE GENERATION	MATLAB Fundamentals	Simulink for System and Algorithm Modeling	Real-Time Testing with Simulink Real-Time and Speedgoat Hardware	Embedded Coder for Production Code Generation

Statistical Methods in MATLAB › Signal Preprocessing and Feature Extraction for Data Analytics with MATLAB › Accelerating and Parallelizing MATLAB Code › Optimization Techniques in MATLAB › Processing Big Data with MATLAB

Building Interactive Applications in MATLAB 🛡 › Object-Oriented Programming with MATLAB

Wireless Communications Systems Design with MATLAB and USRP® Software-Defined Radios › Communication Systems Modeling with Simulink › Designing LTE and LTE Advanced Physical Layer Systems with MATLAB

Simulation-Based Testing with Simulink › Real-Time Testing with Simulink Real-Time and Speedgoat Hardware

Modeling Fluid Systems with Simscape › Modeling Electrical Power Systems with Simscape › Modeling Driveline Systems with Simscape

Programming Xilinx Zynq SoCs with MATLAB and Simulink › Software-Defined Radio with Zynq Using Simulink › Embedded Linux and System Integration for Zynq

Code Generation for AUTOSAR Software Components › MATLAB to C with MATLAB Coder › Polyspace for C/C++ Code Verification

MathWorks Training Information

ASSESS YOUR MATLAB AND SIMULINK KNOWLEDGE

Should you start with MATLAB Fundamentals or Simulink for System and Algorithm Modeling? Completing the recommended assessment prior to registering for a course will allow you to confirm what you know and confidently build the right curriculum for you. Contact your sales representative to see whether you qualify for this free service.

GUARANTEED TO RUN

We understand making plans to attend training sessions is a commitment on your part and that cancellations can be disruptive. When you register for a course that is "Guaranteed to Run," you can be confident that it won't be cancelled or rescheduled for any reason.

PURCHASE TRAINING IN VOLUME

Maximize your training budget by purchasing training in volume, which gives you discounts on future courses. Credits may be applied to any classroom, onsite, or online course within one year of purchase.

MATHWORKS CERTIFICATION PROGRAM

Obtain Certified MATLAB Associate or Certified MATLAB Professional status, and prove your MATLAB proficiency to customers, industry peers, and employers. For organizations, certification is a strategic investment that pays off through increased productivity and project success. MATLAB training courses cover all concepts tested in exam questions. For locations of the more than 700 testing centers, dates, and fees, visit **mathworks.com/certification**.

TWO EASY WAYS TO REGISTER

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United States and Canada: 508-647-7000

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MathWorks is registered with GARP as an Approved Provider of Continuing Professional Development (CPD) credits.

For course descriptions, classroom offerings in your area, and a complete schedule, visit

mathworks.com/get-training