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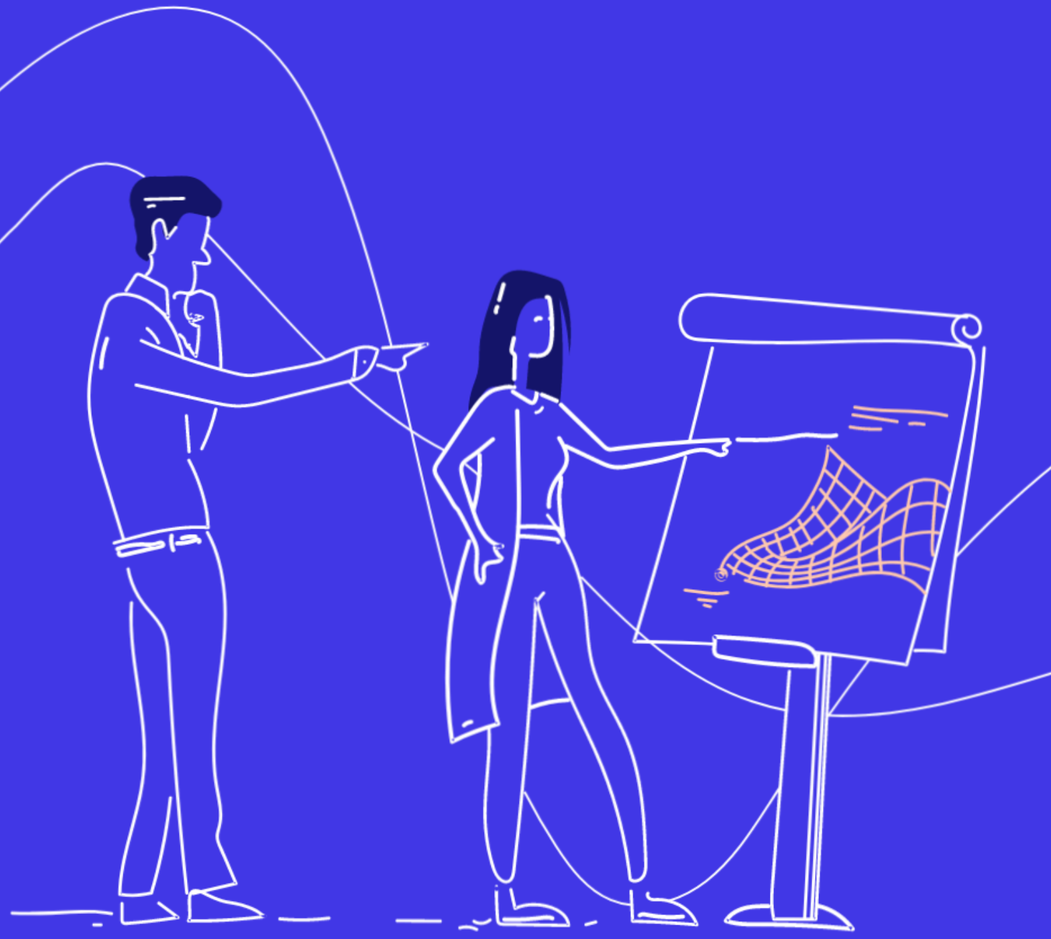
Automotive Training Grid



SciEngineer’s training courses are designed to help organizations and individuals close skills gaps, keep up-to-date with the industry-accepted best practices and achieve the greatest value from MathWorks® and COMSOL® Products.

Automotive Training Grid

Role	Fundamental Topics	Core Topics					Add-On Topics			
Function / Application / Algorithm Developer	MATLAB Fundamentals for Automotive Applications	Simulink Model Management and Architecture	Stateflow for Automotive Applications				Simulation-Based Testing with Simulink			
Test Engineer			Simulation-Based Testing with Simulink	Design Verification with Simulink*	Real-Time Testing with Simulink Real-Time and Speedgoat Software		Polyspace for C/C++ Code Verification			
(Embedded) Software Engineer	Simulink for Automotive System Design		Embedded Coder for Production Code Generation	Code Generation for AUTOSAR Software Components			Integrating Code with Simulink	Real-Time Testing with Simulink Real-Time and Speedgoat Hardware		
Systems Architect / Engineer			Stateflow for Automotive Applications				Simulation-Based Testing with Simulink			
(Sensor) Data Scientist	MATLAB Fundamentals for Automotive Applications	MATLAB Programming Techniques	Statistical Methods in MATLAB	Signal Preprocessing and Feature Extraction for Data Analytics with MATLAB	Machine Learning with MATLAB	Deep Learning with MATLAB	Processing Big Data with MATLAB	Accelerating and Parallelizing MATLAB Code	Optimization Techniques in MATLAB	Object-Oriented Programming with MATLAB

Application	Fundamental Topics	Core Topics					Add-On Topics			
Physical Modeling	MATLAB Fundamentals for Automotive Applications	Modeling Physical Systems with Simscape	Modeling Driveline Systems with Simscape	Modeling Electrical Power Systems with Simscape	Modeling Fluid Systems with Simscape	Modeling Multibody Mechanical Systems with Simscape				
Control Design	Simulink for Automotive System Design	Control System Design with MATLAB and Simulink	Stateflow for Automotive Applications							
Radar / Sensor	MATLAB Fundamentals for Automotive Applications	Image Processing with MATLAB	Automated Driving with MATLAB	Deep Learning with MATLAB			MATLAB to C with MATLAB Coder			
ADAS										
Image / Vision			Computer Vision with MATLAB							

SciEngineer's Training Services

The Value of an Experienced Training Expert

Our training courses are developed by MathWorks' team of training engineers with exclusive product knowledge gained from working closely with product developers. They acquire significant hands-on experience by using new products months before they are released and are always current on new capabilities.

Learn Relevant Skills

Each course contains a set of learning objectives designed to help participants quickly master necessary skills. Our hands-on approach allows participants to practice, apply, and evaluate their knowledge in the classroom.

Receive Expert Instruction

Our training employs industry-accepted best practices for adult learning and technical instruction, and has developed course content that facilitates a “Presentation, Practice, Test” approach to learning. All training engineers have been selected based on their theoretical knowledge, technical education, experience, and teaching ability.

Increase Team Success Rates

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%.

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Expand your knowledge