

Navigating global market certification processes

**Vehicle homologation training
for vehicle engineers and leaders
responsible for certification**



Course overview

This three-day course offers a new opportunity to gain a global view of the complex processes, regulatory resources and testing requirements for homologation. It is intended for project-level engineers and executives who need to better understand the requirements of specific markets. While geared more toward vehicle manufacturers, suppliers will also benefit from the component and system level certification requirements covered in the course.

Training topics

Day 1

- Introduction
- What is homologation?
- Self-certification versus witness testing/type approval
- Federal Motor Vehicle Safety Standards (FMVSS)/Canadian Motor Vehicle Safety Standards (CMVSS) overview (Similar standards but different process and documentation requirements)
- European Union (EU)/Economic Commission for Europe (ECE) overview (technical services, documentation and initial assessments)
- China Compulsory Certificate (CCC) and new changes overview (evolving from witness testing to self-certification)
- Other markets
 - Australian Design Rules (ADR)
 - State Standard of the Soviet Union (GOST)
 - Japan
 - Middle East
 - Central/South America
- Global Technical Regulations (GTRs) (the drive toward one set of global rules)

Day 2

- Worldwide Manufacturer Identification (WMI) from SAE
 - An important first step for new manufacturers
- FMVSS process
 - More in-depth look at the process in the U.S.
 - State-specific regulations
- CMVSS process
 - Significant regulatory differences
 - Transport Canada requirements
- Mexico process and restrictions
 - Unique right-to-sell trade considerations
- EU/ECE process
 - Material restrictions
 - Type approval and small-series requirements

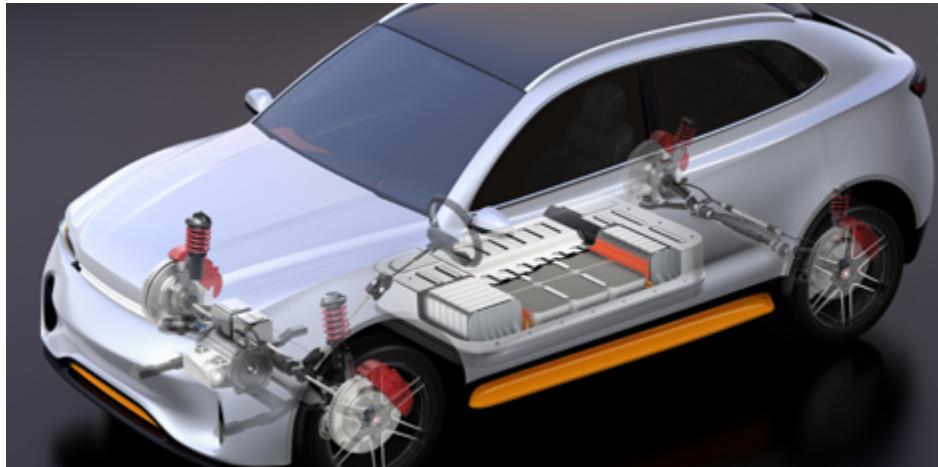
Day 3

- China CCC process
 - Transitioning to self-certification
- Other market processes
- Compliance demonstration plans (CDPs) and reports
- Regulatory forecast and working party: WP.29
 - Overview of how commission of government and industry members are working toward a global certification system
- Related critical automotive considerations and available training
 - Automotive Functional Safety (FuSa) – ISO 26262 Standard
 - Safety of the Intended Functionality (SOTIF) – ISO 21448 Standard
 - Automotive Cybersecurity – ISO/SAE 21434 Standard
 - Autonomous vehicles – UL 4600 and beyond
- How to build a homologation team
 - Matrix style
 - Subject-matter experts versus homologation experts

Why UL?

From materials testing to supply chain management, new energy options to security and interoperability solutions, leverage our expertise and insights to navigate the global regulatory landscape and bring your products to market.

UL's global network of technical experts and state-of-the-art facilities — along with our long-standing relationships with regulatory authorities, partner laboratories and industry technical leaders — help manufacturers gain the compliance credentials needed to compete in a more complex global supply chain.



Objectives

Upon successful completion of this workshop, you will have:

- Knowledge of the homologation process and requirements for significant markets
- An overview of testing requirements
- An understanding of the documentation task
- A road map to people-power needs versus product development V-model

Target audience

- Product engineers, release engineers and planners
- Project managers
- Test engineers and managers
- Quality leadership
- Engineering management and C-level executives
- Start-up founders and leaders
- Marketing management

For more information, call 1.864.630.5373, email kvasales@UL.com or visit kvaua.com.



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CS26788251-0621