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
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

Why UL?
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