

Ground Vehicle Standards

With over 2,500 standards in the ground vehicle database, these documents are developed and managed to comply with the world trade organization's guidelines and bring bottom line improvements for OEMs and suppliers worldwide. They commonize practices, processes, and products throughout the ground vehicle industry and are paramount to the advancement of technology.



Today over 700 technical committees and 17,000+ professionals from around the globe meet at the SAE standards development table and serve every aspect of industry from vehicle design and integration to build, manufacture, operate, and maintain.

HOW STANDARDS ARE LINKED TO YOUR BUSINESS

Technical standards set the expectations for safety, reliability, and quality, but they also are valuable business tools that provide many benefits, including:

- Reduced duplications efforts, efficiency, and cost savings
- Reduced time to market
- Regulatory compliance
- Lower procurement costs
- Expanded market potential
- Innovations – plus much more.

GLOBAL PARTNERSHIPS

In addition to the development and maintenance of its family of standards, SAE is also an active partner with other SDO's, government agencies, and regulatory bodies that collaborate closely to support the newest, most robust, and comprehensive standards/products for a global marketplace. Some of these partnerships include:

- Society of Automotive Engineers of Japan
- German Electrical and Electronic Manufacturers Association
- US Federal Highway System
- China Automotive Technology & Research Center
- National Highway Traffic Safety Administration
- US Department of Transportation
- Japan Automobile Research Institute
- US Environmental Protection Agency
- Brazilian National Standards Organization
- American National Standards Institute; US Technical Advisory Group
- The European Telecommunications Standards Institute
- International Organization for Standardization (ISO); US Representative; Secretariat for four ISO TC22 Road Vehicle Committees

SAE GROUND VEHICLE STANDARDS AT WORK

SAE J3061™, Cybersecurity Guidebook for Cyber-Physical Vehicle Standards, is the first ever SAE recommended practice for automotive cyber security.

SAE J1772™ – Electric Vehicle and Plug-in Hybrid Electric Vehicle Conductive Charge Coupler- stabilized and unified the global market for EV/ PHEV manufacturers and paved the way for future global electromobility.

SAE's H-Point Machines used in conjunction with J826™, H-Point Machine and Design Tool Procedures and specifications, are required safety certifications tools for production in countries around the world.

SAE J1939™ standards define a high-speed CAN (ISO 11898-1) communication network that supports real-time, closed-loop control functions, simple information exchanges, and diagnostic data exchanges between electronic control units throughout the vehicle.

See what's next

You spoke. We listened. In the coming months SAE International will reveal an updated Digital Library platform that will enhance user experience, expand content offerings, improve discoverability, and much more. Look for a new name, a new look, and better, faster way to access the content you need. Stay tuned to see what's next.