
표준화 및 스마트 모빌리티



자동차안전기준 국제조화 현황과 동향

김형구* · 임종순** · 김준호***

The Status and Trends of Harmonization of Vehicle Regulations

Hyounggu Kim*, Jongsoon Lim**, Junho Kim***

Key Words : WP.29(World Forum for Harmonization of Vehicle Regulations, 자동차국제기준조화기구), UN 기준(UN Regulations), UN 세계기술기준 (UN GTRs, UN Global Technical Regulations),

ABSTRACT

With regard to international vehicle regulations, UN regulations annexed to the 1958 Agreement and UN GTRs associated with the 1998 Agreement are established and amended at the World Forum for Harmonization of Vehicle Regulations (WP.29) under the Inland Transport Committee (ITC) of the UN European Economic Council.

This paper mainly explains the overall status of WP.29, including WP.29 history and its organization and activities, the procedures of establishment and revising UN regulations and UN GTRs, also the current status on harmonization and activities of Korea are introduced.

* 한국교통안전공단 자동차안전연구원/연구위원

** 한국교통안전공단 자동차안전연구원/책임연구원

*** 한국교통안전공단 자동차안전연구원 안전기준국제화센터/센터장

E-mail : hyounggu35@kotsa.or.kr

자동차관리제도에서의 소규모제조사 인증정책 동향

정윤재* · 정연억** · 박찬규*** · 하성용****

A Study on Recent Vehicle Certification Policy Trends for Low Volume Manufacturer Based on Automobile Management Institution

Yunjae Jeong*, Yeoneok Jeong**, Chankyu Park***, Sungyong Ha****

Key Words : Motor vehicles safety certification system(자동차안전 인증제도), Safety standards for motor vehicles (자동차안전기준), Self-certification of motor vehicles(자동차 자기인증) Spacialized vehicles(특수목적차량)

ABSTRACT

Korean vehicle certification system was changed from type-approval to self-certification in 2003. But there were many vehicle manufacturer which don't have facility for self-certification. These companies are called "low-volume vehicle manufacturer" and KATRI is working for their self-certification process. In this study we introduce formal and policies especially for specialized vehicles like camping-car and incomplete vehicle. And also introduce future plan for corresponding eco-friendly, autonomous vehicle.

* 한국교통안전공단 자동차안전연구원/자동차인증처장

** 한국교통안전공단 자동차안전연구원/책임연구원

*** 한국교통안전공단 자동차안전연구원/선임연구원

**** 중부대학교 스마트모빌리티공학과/교수

E-mail : sufari@kotsa.or.kr

전기자동차 안전성평가 기술개발과 기술인력 양성

하성용* · 이재웅* · 이흥식*

A Study on the Development of Electric Vehicle Safety Evaluation Technology and Fostering Technical Manpower

Sungyong Ha*, Jaewoong Lee*, Heungsik Lee*

Key Words : EV inspection(전기차 검사), Electric vehicle(전기자동차) Battery management system(배터리관리시스템), EV battery(전기차 배터리), EV maintain education(전기차 교육)

ABSTRACT

In this study, in order to secure the safety of electric vehicles in preparation for the spread of electric vehicles with a carbon-neutral policy, the battery certification test was conducted by deriving the electric vehicle battery fire response technology among the main safety evaluation technology and safety management technology for the integrated safety management of electric vehicles. Establish a system and institutionalize batteries, establish a battery management system (BMS) test certification system that can monitor fire, and develop ignition prevention and delay technologies in case of fire. It is a study for deriving educational technology development for converting or expanding maintenance manpower, which was limited to existing internal combustion engines, and nurturing new manpower.

* 중부대학교/교수

E-mail : hsy1396@naver.com

전기자동차 안전성 평가기술개발과 법제도 동향

윤대권* · 윤재곤** · 하성용***

Electric Vehicle Safety Evaluation Technology Development and Legal System Trends

Daekwon Yun*, Jaegon Yun**, Sungyong Ha***

Key Words : Electric vehicle(전기자동차), Eco-friendly vehicle(친환경자동차), EV maintenance(전기자동차정비), Operation management(운영관리), Legal system(법제도)

ABSTRACT

Although policy support and distribution of eco-friendly electric vehicles(EV) are rapidly increasing, evaluation technology development and follow-up management measures to secure electric vehicle operation safety such as fire and handling risks of electric vehicles are very insufficient. In particular, in terms of follow-up management, in the case of electric vehicle maintenance, policy support and institutionalization such as expansion of facilities and professional manpower and provision of quality educational opportunities are required. In this study, the status of electric vehicle maintenance and education systems at home and abroad were compared and analyzed, and development directions for improvement of electric vehicle operation management and maintenance system were reviewed.

* (사)차량기술사회/기술사

** (사)차량기술사회/기술사

*** 중부대학교 스마트모빌리티공학과

E-mail : yun0321@nate.com