THE COMPANY

Services related to the development, integration and operation of complex electronic and IT systems are ESG’s trademark. ESG has been a competent partner to its customers for 50 years, providing consultancy, system development, logistics, training, testing, technical and IT services.

eMobility

ESG offers its customers a comprehensive range of services in the area of eMobility, stretching from advanced development through after sales. Thanks to an integrated approach and the interdisciplinary transfer of knowledge and technology within ESG, problems are detected promptly and solutions quickly implemented. ESG also supports its customers with their development work throughout the entire Life Cycle, from the initial concept through all the integration cycles to final validation, as well as in the transition to the phase. Highly competent teams work in the areas of e-drive concepts, energy management and high-voltage safety, as well as infrastructure and charging concepts. ESG is involved as an independent body in the area of network infrastructure and communications, with the automobile manufacturers, the energy supply companies as well as regulatory bodies to establish flexible and future-proof solutions.
The staff who work in drive development face hazards involving high voltage systems. The personnel permitted to work with high voltage systems must comply with all safety requirements and regulations. In addition, the introduction and growing share of electric and hybrid vehicles on the market will mean car companies will be dealing on a more frequent basis with such vehicles in maintenance and repair work. This means employees will no longer just be working with voltages of up to 24 volts but will now have to deal with voltages of 400 to 800 volts. To guarantee the safety of employees, it is extremely important to create the conditions for maintaining safety regulations, have employees sufficiently qualified, and to have this fully documented.

Based on an individual hazard assessment conducted in the company, measures will be defined to maintain legal requirements and provide for lasting documentation. As a central element of occupational health and safety in the company, the hazard assessment involves systematically assessing the hazards and stress for employees due to their work, and it forms an essential basis for the deriving specific occupational safety measures. The employer is responsible for carrying out the hazard assessment and for implementing the results. Also, all work equipment must be checked for any possible interaction with other work equipment, the working environment, and working materials. With the help of ESG developed OSIMA® software solution, ESG supports its customers in efficiently implementing the legal requirements whilst conserving resources.

The modular and flexible organization of ESG’s high-voltage training scheme allows for optimum training which is tailored to the requirements of individual employees possible, and saves costs and time for the company.

**HIGH-VOLTAGE: CONSULTING AND QUALIFICATION**

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**CUSTOMER REFERENCE LIST (EXTRACT)**

- BMW/Mini
- Fisker
- RUF
- VW/Audi
- Chrysler
- Bright Automotive
- A123 Systems
- Johnson Controls
- LMS
- LG Chem Power
- Mercedes-Benz
- Renault
- Nissan

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