



## COURSE DATASHEET

<b>Semester:</b>	2015/16/2
<b>Course:</b>	Relations of automotive industry
<b>Code:</b>	VEMKFOT145K
<b>Responsible department:</b>	Department of Process Engineering
<b>Department code:</b>	MKFO
<b>Responsible instructor:</b>	Gábor Elemér Veress

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### Course objectives:

Get acquainted with the content and requirements of Technical Cleanliness – VDA 19

Get acquainted with the elements, content and requirements of automotive law environment

Get acquainted with the product adequacy's requirements

### Course content:

Importance and terminology of technical cleanliness. Technical cleanliness analysis methods and their specialities. Determination of extraction parameters, decay curve. Filtering, gravimetry, granulometry (particle counting and sizing). Expression of cleanliness grades according to international standards (ISO16232, VDA19), specialities of customer requirements. Design and realization aspects of technically clean production environments: principles, terminology and scope of VDA19-2. Environmental aspects, requirements and specification of cleanliness zones, cleanliness rooms and cleanrooms, Airborne particle distribution, choice of the appropriate environment. Logistic concept, advantage and disadvantage of packaging solutions. Concept of personal safety equipment and clothing. Design concepts of manufacturing equipment.

technicality/ speciality of international legal rule's environment relating to automotive industry  
technicality/ speciality of EU legal rule's environment related to automotive industry  
technicality/ speciality of national legal rule's environment relating to automotive industry  
technicality/speciality of sector-specific(electronics, security systems, light industry, heavy industry)  
legal rule's relating to automotive industry

Summary of National laws relating to occupational safety and health, environmental protection, product conformance, product , product quality, consumer protection, metrology, work, job security, data and information protection

Connection of relevant laws and requirements of the standard

The Product adequacylaw,  
relationship between Product liability and product safety's legal rules

Product Audit Steps

product Safety

Certification

basic requirements of Certification

Development and importance. of Product Conformity Certification system

Knowledge of various product certification systems, application's criteria.



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### Course content:

The ways of proving compliance.  
The beginnings of the EU system, development of today's practice.  
conditionality of the EU's functioning  
Product safety regulation.  
The legal system of the EU, the harmonization exercise.  
The technical regulation of the marketing of products.  
Technical harmonization of the old, new, global approach concept.  
The CE marking.  
The procedure for product certification.  
authority of certification bodies  
Product safety, product liability, market surveillance and consumer protection.

### Requirements, evaluation and grading:

Conditions for completion of sub-modules:  
The written exam is related to the entire content of performance and note.  
Conditions of completion the module is the participation in the performance, write the test and and the submitting written task successfully.  
Written assignment:  
Successful completion of a test with 20 multiple-choice questions.(Expected minimum level of 80%)  
Submitting written task:  
Write a submitting task, which is the part of the 10-page portfolio.This task is approved by the teacher.  
During the two semesters each submitting written task should related to the same product and production process. This task should summarize the implementation of the development activity which is closely related to the content of the sub module.  
Evaluation System:  
Passed: successful test and the submitting written task accepted by the teacher  
Fail: failed test or the submitting written task is not accepted by the teacher

### Required and recommended readings:

Buxbaum Miklós: Vállalati internal audit a gyakorlatban, ETK Szolgáltató, 2006



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### Required and recommended readings:

- dr. Gutassy Attila: Ellenőrzés és minőségbiztosítás, Műszaki Könyvkiadó, 2010
- Kövesi János, Topár József: A minőségmenedzsment alapjai, Typotex Kiadó, 2006
- Fazekas Judit: Fogyasztóvédelmi jog, Complex Kiadó, 2007