



COURSE DATASHEET

Semester:	2014/15/1
Course:	Tools of quality management
Code:	VEMKGET145E
Responsible department:	Department of Mechanical Engineering
Department code:	MKGE
Responsible instructor:	Tamás Jenő Kulcsár

Course objectives:

8D (Eight Disciplines) Problem Solving Method

The P-FMEA is an effective tool for risk analysis

Course content:

Advantage, role and apply of teamwork

Link to the Quality Management Systems

Conventional problem solving methods

Build up the 8D Team and define the tasks

Global 8D system, the 8-steps problem solving method

Documentary requirements

Is-Is not, Ishikawa (Fishbone), 5 WHY? methods

Different types and application aspects of the FMEAs - What kind of FMEAs are used for what purpose?

Link to Quality management systems

Basic requirements of preparation a PFMEA

Definition of the certain indexes (Severity, Occurance, Detection)

The risiko index (RPN = Risk Priority Number)

Definition of the tasks & goals

Completion of the formulars - Example

The link between the FMEA & the Control Plan

Suggested improvements and actions

Requirements, evaluation and grading:

the conditions of the Fulfillment of sub-modules:

The written exam includes the full content of lectures and full content of note.

the conditions of the Fulfillment of the modul is the participation in the performance, write the test successfully and the submitting task,too.

Written assignment:

complete the test succesfully, which contains 20 multiple-choice questions.(Required minimum level of 80%)

Submitting task :



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Requirements, evaluation and grading:

Write a submitting task, which is the part of the 10 pages portfolio. This task is approved by the teacher.

During 2 semesters each submitting task should be related to the same product and production process.

This task should summarize the implementation of the development work which is closely related to the content of the sub module.

Evaluation System:

-Pass: successful test and the submitting task accepted by the teacher

_Fail: failure of the test or the submitting tasks is not accepted by the teacher

Required and recommended readings:

Szedes Zoltán: Problémamegoldó folyamat a minőségért és a hatékonyságért, BBS-Info Könyvkiadó és Inform. Kft., 1999

Takashi Osada: The 5S's: Five Keys to a Total Quality Environment

<http://www.qualitytrainingportal.com/resources/fmea/>

Dr. Fekete István, Dr. Galambos Péter: Kockázatelemzés lépésről-lépésre, ETK Rt., 2005

Farkas Szilveszter, Szabó József: A vállalati kockázatkezelés kézikönyve, Dialóg Campus Kiadó, 2005

FMEA tréning-Potenciális hibák időben történő felismerése, TEQA Oktatási füzet 2008