

Quality Management and Metrology (MEC-E1090)

Examination on Wednesday the 13th of December 2017 at 9...12 o'clock, K213

1. Leadership in **ISO 9001** –quality standard
2. Contents and evaluation criteria of **Malcolm Baldrige National Quality Award**
3. Write out the Lean Six Sigma acronym **DMAIC** and explain how you can utilize the procedure for improving your production processes
4. What is **$\bar{x}R$ –control card** and how do you utilize the card in quality system
5. **Coordinate Measuring Machine**; different machine structures, probes, control software and industrial applications
6. Answer very briefly:
 - a) Measurement uncertainty
 - b) Gauge blocks
 - c) Micrometer
 - d) Laserinterferometer
 - e) Calibration temperature
 - f) MIKES

(Grades: 0...6 points/question, accepted examination 40% of the maximum points eq. 14 points)

Rewarding and joyful winter!



Kalevi Aaltonen