



Aalto University

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## Quality Management and Metrology (MEC-E1090)

Examination on Tuesday the 25th of October 9...12 o'clock, K215

1. **Quality manual** as part of the ISO 9001 –quality system
2. What are the quality award criterion and why Valtra earned **Finnish Quality Award**
3. Basics of **the Lean SixSigma -philosophy.**
4. What is  $\bar{x}R$  –**control card** and how do you utilize the card in quality system
5. **Gauge Blocks**; calibration of the blocks and calibration with the blocks
6. Answer very briefly:
  - a) Measurement uncertainty
  - b) DBB
  - c) CMM
  - d) Gauge R&R
  - e) Optical quality gate
  - f) MIKES

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

**Rewarding autumn!**

Kalevi Aaltonen