

Training on determination of hydraulic pressure

Beograd DMDM, 27 february – March 2017

Lecturers: Fredrik Arrhén (SP), Janez Šetina (IMT)

Agenda Draft 2016-12-09

27 February 2017

Registration of the participants, opening and welcome

Theory of the working principle of pressure balances

This includes basic principles, different piston/cylinder designs and other considerations on the use of pressure balances.

Guidance literature including standards and guidelines

Short presentation of available literature in the area including guidelines.

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Practical training of using a pressure balance

This includes cleaning techniques, practical considerations on the use of pressure balances and hints how to judge the performance.

Calculations of pressure generated by the pressure balance

Presentation of the formulas used for calculation of generated pressure

Uncertainty calculations.

Short introduction to the uncertainty calculations of generated pressure and the different quantities to consider

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Calculations of pressure generated by the pressure balance (cont)

Presentation of the formulas used for calculation of generated pressure

Uncertainty calculations (cont).

Short introduction to the uncertainty calculations of generated pressure and the different quantities to consider

Cross-floating techniques when calibrating a pressure balance.

The principle of calibrating pressure balances against a reference pressure balance is presented and also some practical exercises can be performed. Some different calculation principles are also considered.

Training session begins every day at 9:00

Timing for coffee and lunch breaks will be agreed with host every day on-site.