

Steam Quality Testing Seminar

- Steam theory & practice
- Derivation of Steam Quality Testing/Regulatory
- Impact of steam quality on sterilization processes
- Steam quality theory
- Steam Quality test demonstration

Keith Shuttleworth

is the Senior Consultant at Keith Shuttleworth & Associates Ltd, which provides a range of specialist products, consultancy and training services associated with steam quality testing and sterilization processes to the international market.

7th March 2019

Scantago A/S

Skullebjerg 9
Gevninge
DK-4000 Roskilde



Program

- 08:00 - 08:30 Light breakfast buffet
- 08:30 - 10:00 Welcome - Introductions
- Steam theory & practice
 - Steam generation
 - Pressure/temperature/enthalpy
 - Temperature/Pressure relationship
 - Pressure/enthalpy curves
- 10:00 - 10:15 Refreshments
- 10:15 - 11:00 Derivation of Steam Quality Testing/Regulatory
- Historical (HTM 2010)/EN285 relationship
 - Scope of EN 285:2015
 - Steam quality testing – why
 - Other standards/references USP, ISO, ISPE etc.
- 11:00 - 12:00 Impact of steam quality on sterilization processes
- Getting the overall context
 - Processes that require SQ testing
- 12:00 - 12:45 Lunch Break
- 12:45 - 14:00 Steam quality theory
- Non-condensable Gasses
 - Superheat
 - Dryness
 - Required preconditions (design of testing ports etc.)
 - Factors affecting the steam quality (PSG and feed water quality)
 - Equipment required
 - Procedure
 - Important factors / common pitfalls
- 14:00 - 14:15 Refreshments
- 14:15 - 14:30 Discussion
- Feedback from participants
 - Experience with test methods
- 14:45 - 16:30 Steam Quality test demonstration
(in groups of maximum 10-12 person at a time)
- Demonstration of steam quality test by use of SQ-1 test equipment.

Keith Shuttleworth biography

Keith Shuttleworth is the Senior Consultant at Keith Shuttleworth & Associates Ltd, which provides a range of specialist products, consultancy and training services associated with steam quality testing and sterilization processes to the international market.

Following a career as an Engineering Officer in the Merchant Navy, he has worked as an engineering manager in the UK's National Health Service, the pharmaceutical industry and the sterilizer supply and service sector.

He has over thirty five years practical experience in the procurement, commissioning, validation and maintenance of sterilizers. Mr Shuttleworth was registered as an Authorised Person (Sterilizers) in October 1994 and is currently a member of the British Standards Institute Committee CH/198 (Sterilization and Associated Equipment and Processes) has been Chair of the P & HSS Sterilization Special Interest Group and has been a member of the PDA Taskforces responsible for Sterilizer Validation and SIP Technical Reports.



Registration Form

Please register to Scantago before February 4th, 2019

by e-mail mail@scantago.com

Last Name: Mr./Mrs. _____ First name: _____

Title: _____

Company: _____

Street: _____

Area code: _____ City: _____ Country: _____

Tel.: _____ Fax: _____ VAT: _____

E-mail: _____

Fee (payable in DKK or Euro): 4,400 DKK (586-) excl. VAT

Please note, that your registration for participation is binding. Delegate substitutions may be made at any time prior to the start of the seminar.

Seminar Location:

FARUM PARK Sports- & Conference Center, Idrætsvænget 2, DK-3520 Farum.

Steam Quality test demonstration will be held at Spirax Sarco Facility, Blokken 62, 3460 Birkerød. This is approximately 6 km from FARUM PARK Sports- & Conference Center.

Note: Participants are responsible for their own transport from FARUM PARK Sports- & Conference Center to Spirax Sarco.

Please direct all questions regarding the seminar or accommodation to mail@scantago.com or +45 59 470 600

Payment by

An invoice will be submitted approx. 2 weeks before the seminar.

Please state order reference if applicable.

Cancellation policy:

Scantago A/S reserve the right to cancel the seminar, for want of attendees.