

COGMP6 - SQA Unit Code D7VF 04

Inspect and verify liquid measurement systems



Overview

This unit is about your contribution to the inspection and verification of liquid devices.

This unit deals with the following:

- 1 Inspecting and verifying primary liquid devices
- 2 Inspecting and verifying secondary liquid devices
- 3 Inspecting and verifying liquid quality devices

During this work you must take account of the relevant operational requirements and safe working practices AS THEY APPLY TO YOU.

Previous Version:

Unit 6 National Occupational Standards in Measurement Processes – May 2003

Performance criteria

- You must be able to:*
- P1 effectively notify all relevant personnel of your intention to carry out the inspection
 - P2 effectively inspect and verify the Primary Liquid Device against approved procedures and standards
 - P3 effectively re-instate the Primary Liquid Device
 - P4 follow the appropriate procedures should the Primary Liquid Device be unsuitable for re- instatement
 - P5 accurately complete all relevant documentation
 - P6 effectively safeguard the integrity of tools and equipment
 - P7 work safely and in accordance with operational requirements
 - P8 effectively isolate, remove, inspect and verify the Secondary Device against approved procedures and standards
 - P9 effectively re-instate the Secondary Device
 - P10 follow the appropriate procedures should the Secondary Device be unsuitable for re- instatement
 - P11 effectively isolate, remove, inspect and verify the Quality Device against approved procedures and standards
 - P12 effectively re-instate the Quality Device
 - P13 follow the appropriate procedures should the Quality Device be unsuitable for re- instatement
 - P14 effectively safeguard the integrity of high pressure standards gases and carrier gases

Knowledge and understanding

You need to know and understand:

- K1 how to safeguard the integrity of the Primary Device to be inspected and verified
- K2 how to carry out the inspection on the Primary Device
- K3 why and when to perform safe isolation and de-isolation
- K4 what to do if the Primary Device is unsuitable for re-instatement
- K5 the installation requirements and limitations and their effects upon performance of the Primary Device
- K6 the operating principles of the Primary Device
- K7 performance characteristics and calibration techniques for all of the relevant Primary devices
- K8 how to safeguard the integrity of the Secondary Device to be inspected and verified
- K9 how to carry out the inspection on the Secondary Device
- K10 what to do if the Secondary Device is unsuitable for re-instatement
- K11 the installation requirements and limitations and their effects upon performance of the Secondary Device
- K12 the operating principles of the Secondary Device
- K13 the function of loop components and the impact of their performance on the loop. To include barrier devices, power supplies and cabling and connectors
- K14 performance characteristics and calibration techniques for all of the relevant Secondary devices
- K15 how to safeguard the integrity of the Quality Device to be inspected and verified
- K16 how to carry out the inspection on the Quality Device
- K17 what to do if the Quality Device is unsuitable for re-instatement
- K18 the installation requirements and limitations and their effects upon performance of the Quality Device
- K19 the operating principles of the Quality Device

Additional Information

Scope/range related to knowledge and understanding

- 1 how to select, use and care for Personal Protective Equipment (PPE) including sight/hearing protection, gloves, footwear, hard hats, appropriate work wear
- 2 the implications of statutory and organisational requirements
- 3 how to interpret operational requirements e.g. policies, procedures, instructions, codes of practice, standards, schedules
- 4 who to inform that you are going to carry out the inspection e.g. plant management staff
- 5 the principles and practice of measurement. To include errors, accuracy and precision
- 6 isolation techniques
- 7 the differences between inspection and verification
- 8 the documentation relevant to inspection and verification and how to complete it effectively
- 9 how to access and interpret information from certificates of calibration and standards
- 10 device handling techniques
- 11 the traceability of test equipment
- 12 the meaning of the measurement terminology. To include errors, accuracy, precision and uncertainty)
- 13 the sources and treatment of errors and mis-measurement within metering system
- 14 how to access and interpret information on 'proving'

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Inspect and verify liquid measurement systems

Developed by Cogent

Version number 1

Date approved May 2010

Indicative review date May 2012

Validity Current

Status Original

Originating organisation Cogent

Original URN MP6

Relevant occupations Engineering and manufacturing technologies; Manufacturing technologies; Process, Plant and Machine Operatives; Plant and Machine Operatives

Suite Measurement Processes

Key words inspect, verify, liquid, measurement, systems, devices
