

Analysing samples in downstream operations

Overview

This standard is about your competence in analysing samples to confirm quality.

This standard deals with the following:

- 1 Prepare to analyse samples
- 2 Analyse samples to confirm quality
- 3 Communicate results of analysis

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

This Standard is suitable for those working in the downstream fuel environment.

Previous Version:

Adapted from Unit 11 of Refinery Field Operations NOS – version April 2005

Analysing samples in downstream operations

Performance criteria

- You must be able to:*
- P1 obtain containers appropriate for the sample material
 - P2 ensure that containers obtained are clean before use
 - P3 ensure that suitable analysis equipment is set up and cleaned correctly
 - P4 ensure that the analysis equipment is fit for purpose
 - P5 prepare for analysis in the appropriate designated area
 - P6 ensure that the sample preparations match schedule, instructions and procedures for in house or offsite testing
 - P7 perform analyses in the appropriate designated area
 - P8 analyse the samples in accordance with standard test method
 - P9 leave equipment in a clean and safe condition ready for re-use
 - P10 leave the work area in a safe and clean condition
 - P11 retain the sample in accordance with procedures
 - P12 ensure that retained samples are secure and labelled
 - P13 complete all relevant documentation
 - P14 identify abnormal readings and correctly report them
 - P15 inform the appropriate personnel that the samples have been analysed
 - P16 work safely in accordance with operational requirements

Analysing samples in downstream operations

Knowledge and understanding

- You need to know and understand:*
- K1 how to select, use and care for PPE
 - K2 the implications of statutory and organisational requirements
 - K3 how to interpret operational requirements
 - K4 how to work with and within the Permit to Work system
 - K5 how to ensure that analysis equipment is fit for purpose
 - K6 why it is essential to clean equipment
 - K7 the incidents which might occur while analysing samples and the action to be taken
 - K8 the principles of analysis
 - K9 the importance of matching schedule and instructions when analysing samples
 - K10 the location of the nearest safety equipment
 - K11 how to secure and label samples
 - K12 how to communicate effectively
 - K13 who to report abnormalities to
 - K14 the likely consequences of recording inaccurately
 - K15 the possible cause of unexpected results

Analysing samples in downstream operations

Developed by	Cogent
Version Number	2
Date Approved	March 2019
Indicative Review Date	March 2024
Validity	Current
Status	Original
Originating Organisation	Cogent
Original URN	DO11
Relevant Occupations	Engineering and manufacturing technologies; Engineering; Process, Plant and Machine Operatives; Plant and machine operatives n.e.c
Suite	Downstream Operations
Keywords	analysing, samples, prepare, confirm quality, communicate, results
