

## Prepare to produce hydrogen product

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### Overview

This standard identifies the competencies you need to prepare to produce hydrogen product.

You will inspect and prepare the hydrogen production area, setting up appropriate production methods and operating conditions and complete pre-production quality checks.

This could include individuals working in the following industries, Chemical, Petro-Chemicals, Storage and Energy production.

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## Performance criteria

*You must be able to:*

- P1. use all necessary safety equipment, in line with organisational and legal requirements
- P2. follow the standard operating procedures (SOPS) for the production process
- P3. confirm quality criteria for the product and process in line with organisational requirements
- P4. Identify suitable quality assurance methods and procedures
- P5. apply the quality assurance methods and procedures meeting organisational and customer requirements
- P6. obtain accurate information from valid sources on the product and process being quality assured
- P7. specify clearly the required quality of the product and process
- P8. assess accurately and realistically the quality of the product and process meeting organisation requirements
- P9. meet organisational requirements on recording and completing documentation on the quality assurance process
- P10. recommend improvements to quality to the appropriate people in line with organisational requirements

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**Knowledge and understanding**

*You need to know and understand:*

- K1. safety regulations related to production to meet the organisational and legal requirements of hydrogen production
- K2. the organisational standard operating procedures, relating to quality assurance methods and procedures
- K3. the organisational and legal quality standards affecting products, services and processes
- K4. the work processes, control systems and working environments within the organisation and how to ensure these are appropriate
- K5. quality assurance and management systems and principles and best practices
- K6. the principles and processes of effective communication and how to apply them to provide clear and relevant advice
- K7. the purpose and benefits of assessing and documenting information and how it contributes to quality and process optimisation
- K8. the range of systems of control and how to develop appropriate systems
- K9. the range of performance measures, quality tools and techniques which could be used
- K10. the importance of implementation plans and how to develop them
- K11. the principle types of monitoring procedures and how to develop them
- K12. the organisation's quality standards and current methods for measuring performance
- K13. measurement techniques and methodologies.
- K14. the methods and frequency of data collection, analysis and recording
- K15. how to use statistical software and tools to analyse data and identify trends
- K16. the requirements for documentation and records relating to processes and working environments to meet organisational and legal quality requirements
- K17. to evaluate reports from auditors and other sources and make recommendations

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<b>Developed by</b>	Cogent
<b>Version Number</b>	1
<b>Date Approved</b>	30 Mar 2023
<b>Indicative Review Date</b>	30 Mar 2028
<b>Validity</b>	Current
<b>Status</b>	Original
<b>Originating Organisation</b>	Cogent Skills
<b>Original URN</b>	COGHP002
<b>Relevant Occupations</b>	Engineering and Manufacturing Technologies, Manufacturing Technologies, Process Control Technician, Professional Occupations
<b>Suite</b>	Processing Industries Operations
<b>Keywords</b>	safety, work permits, isolation, assess, defective, documentation