

Overview

This standard covers the skills and knowledge needed for you to use and store process gases in brewing.

This standard details the skills needed to store and use different types of process gases in accordance with relevant procedures and regulations.

This standard also details understanding the principles of using and storing process gases in brewing. It covers the regulatory requirements, properties and uses of process gases, carbon dioxide collection and health and safety issues.

This standard is for you if you are involved in, and require a broad knowledge and understanding of, the use, application and storage of process gases in brewing.

Performance criteria

You must be able to:

1. use and store process gases in accordance with the legal or regulatory requirements, the organisational health and safety, hygiene and environmental standards and instructions
2. monitor and control compressed air and oxygen in wort aeration
3. monitor and control carbon dioxide and nitrogen process gases
4. use process gases in brewing
5. identify and follow company, economic and health and safety procedures and regulations for preventing leaks
6. monitor and control the process of carbon dioxide collection
7. handle and store compressed gas cylinders in accordance with legal or regulatory requirements, the organisational health and safety, hygiene and environmental standards and instructions
8. store liquid gases and monitor and control their distribution in high-pressure mains in accordance with legal or regulatory requirements, the organisational health and safety, hygiene and environmental standards and instructions

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Knowledge and understanding

You need to know and understand:

1. the organisational health and safety, hygiene, environmental and quality standards and instructions
2. the personal protective equipment required
3. the work area tools and equipment needed
4. why it is important to check the cleanliness of work area, tools and equipment
5. what may happen if regulatory requirements for the handling and use of process gases are not met
6. what the essential properties and quality of compressed air and oxygen are for use in wort aeration
7. what the essential properties of carbon dioxide and nitrogen are for use as process gases
8. why the properties of inert gases are important in brewing
9. what the typical uses for process gases are
10. why it is important to prevent leaks on both economic and health and safety grounds
11. the practice and benefits of the process of carbon dioxide collection
12. how to safely handle and store compressed gas cylinders
13. what safety hazards are associated with the storage of liquid gases and their distribution in high-pressure mains
14. how to deal with waste materials in accordance with organisational requirements
15. the need for records to be accurate and completed promptly
16. what should be communicated, to whom and why it should be done
17. the limits of your authority and the consequences of exceeding them

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