FOOD PRODUCTION - BEVERAGES
Filter beverage or related products using automated equipment

level: 3
credit: 12
planned review date: May 2009
sub-field: Food and Related Products Processing
purpose: People credited with this unit standard are able to: use safe working practices; complete preparations and filter beverage or related products; and shut down and clean filtration equipment.

entry information: Open.

accreditation option: Evaluation of documentation and visit by NZQA and industry.

moderation option: A centrally established and directed national moderation system has been set up by Competenz (Food and Beverage).

special notes: 1 Legislation relevant to this unit standard includes but is not limited to the: Health and Safety in Employment Act 1992; Health and Safety in Employment Regulations 1995; Food Act 1981; Food Hygiene Regulations 1974; Food (Safety) Regulations 2002; Resource Management Act 1991; and their associated regulations and subsequent amendments.

2 Range
   Equipment may include but is not limited to: filtration – membrane, pad, cartridge, diatomaceous earth or lees filters, centrifuge; pipework, hoses, pumps, valves, tanks.
   Filter media may include but is not limited to – diatomaceous earth, cotton, silica hydrogels, bentonite.
3 Definitions

Organisational procedures refers to documents that include: worksite rules, codes, and practices; equipment operating instructions; production specifications; documented quality management systems; and health and safety requirements.

Related products refers to household or personal care products.

PPE refers to personal protective equipment and may include but is not limited to: protective clothing, gloves, safety glasses, headwear, footwear, hearing protection, safety devices.

4 Competence is to be demonstrated on at least three occasions of filtering using automated equipment.

Elements and Performance Criteria

element 1

Use safe working practices.

performance criteria

1.1 PPE is used in accordance with organisational procedures.

1.2 Work environment is kept clean and free from hazards in accordance with organisational procedures.

Range: hazards to – personnel, product, plant.

1.3 Documentation is referred to and/or completed in accordance with organisational procedures.
element 2

Complete preparations and filter beverage or related products.

**performance criteria**

2.1 Preparation activities for product filtering are in accordance with organisational procedures.

Range: may include but is not limited to – inspection of equipment, confirmation of sufficient product quantity and correct product characteristics, confirmation of downstream location, capacity and conditions.

2.2 Equipment is kept clean and free from contamination in accordance with organisational procedures.

Range: contamination – product residue, odours, cleaning agents, foreign objects.

2.3 Operation of equipment is in accordance with organisational procedures.

2.4 Balance, flow rate, and filter pressure of equipment is in accordance with organisational procedures.

2.5 Product is filtered to required quality, and is available for downstream operations in accordance with organisational procedures.

2.6 Where possible, problems in filtering process are identified, and solutions are implemented or recommended to optimise output and minimise wastage in accordance with organisational procedures.

Range: problems may include but are not limited to – safety, equipment, non-conforming product; solutions may include but are not limited to – notify maintenance need, replace filter media, repair fault, rework product.
element 3

Shut down and clean filtration equipment.

performance criteria

3.1 Product is isolated from filtration equipment prior to disassembly in accordance with organisational procedures.

3.2 Filtration equipment is shut down and cleaned in accordance with organisational procedures.

Comments on this unit standard

Please contact Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.

Please Note
Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0111 which can be accessed at http://www.nzqa.govt.nz/site/framework/search.html.