



Australian Government

Assessment Requirements for MSTAT4024

Select dyes and develop dye specifications and recipes

Release: 1

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Modification History

Release 1. Unit Code, Title and Application changed. Elements and Performance Criteria simplified with Element 1 removed. Foundation Skills field populated. Range of Conditions removed with relevant information moved to Knowledge Evidence. Assessment Requirements clarified with generic foundation skills statements moved to appropriate section and duplication with Performance Criteria removed. Supersedes and is equivalent to MSTTX4004 Select dyes and develop dye specification and recipe for production.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- develop and confirm final dye formula and specifications for at least two different yarns, fibres, fabrics or finished products.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- work health and safety and environmental requirements when working with dyes, including handling of chemicals and dangerous substances
- relevant Australian Standards
- international testing standards
- fibres, yarns and end products and their properties
- dye stuffs and classes
- chemistry of dyes and relevance to processing and fastness properties
- dyeing processes and dyeing machinery
- relationship between dye machinery and selection of dye stuffs and classes
- tests applicable to the dyeing of textiles, including colour fastness and shrinkage
- types of dye testing equipment, including:
 - laboratory equipment
 - pad mangles
 - rota dryers
 - mini jets
 - pilot production plants
- dye specification and recipe requirements, including:
 - dye formulas
 - application properties
 - fastness properties and reproducibility

- suitability for production and application methods
- environmental and safety factors
- application of dyes in laboratory and production process
- recording and reporting practices for dye specification and testing.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - fibres, yarns or products for testing
 - dyes, chemicals and auxiliaries
 - dye testing equipment.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>