



Australian Government

**Assessment Requirements for MSL977001
Contribute to the development of products
and applications**

Release: 1

Assessment Requirements for MSL977001 Contribute to the development of products and applications

Modification History

Release 1. Supersedes and is equivalent to MSL977001A Contribute to the development of products and applications

Performance Evidence

Evidence of competence in this unit must satisfy all of the requirements of the elements and performance criteria, and include demonstration of:

- evaluating at least one (1) product/application brief, preparing the product development plan and contributing significantly to product/application development
- interpreting a brief to determine product or application development requirements
- interpreting and explaining sections of legislation, codes, regulations and Australian Standards that apply to the tasks undertaken in developing products and applications
- applying theoretical knowledge of starting material and formulation principles to develop products or applications
- researching alternative formulations and making formulation recommendations for pilot batch manufacture
- using environment-friendly strategies for formulations
- manufacturing pilot batches
- evaluating pilot batches against the project brief
- evaluating product or application stability
- evaluating the work health and safety (WHS) requirements to be observed for each ingredient during manufacture of product or application
- evaluating the WHS suitability of each ingredient for use in the formulation
- ensuring that the product or application meets regulatory requirements
- documenting the development process in accordance with workplace procedures.

Knowledge Evidence

Must provide evidence that demonstrates knowledge of:

- principles of product or application development
- business goals and their relationship to specific product or application development
- new product/application requirements, expected performance outcomes and key indicators
- physical and chemical aspects of new product or application development
- details of development plan, budget and timeline for new product/application
- principles and practices of operation of pilot batch equipment
- uses, characteristics and limitations of formulation starting materials
- formulation development procedures
- details of regulatory compliance, quality and stability testing protocols and procedures required for new product/application
- relevant hazards, WHS and environment requirements.

Assessment Conditions

- Judgment of competence must be based on holistic assessment of the evidence. Assessment methods must confirm consistency of performance over time, rather than a single assessment event.
- This unit of competency is to be assessed in the workplace or a simulated workplace environment. A simulated workplace environment must reflect realistic operational workplace conditions that cover all aspects of workplace performance, including the environment, task skills, task management skills, contingency management skills and job role environment skills.
- Foundation skills are integral to competent performance of the unit and should not be assessed separately.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Knowledge evidence may be collected concurrently with performance evidence or through an independent process, such as workbooks, written assessments or interviews (provided a record is kept in each case).
- This unit of competency may be assessed with:
 - MSL977002 Troubleshoot equipment and/or production processes
 - MSL977003 Contribute to the validation of test methods
 - MSL977004 Develop or adapt analyses and procedures
- Holistic assessment methods include:
 - review of development brief and development plan (budget, timeline, resources and quality requirements) prepared by the candidate
 - review of new product/application documentation (formulation, evaluation and quality/regulatory compliance procedures) prepared by the candidate
 - feedback from supervisors and clients confirming the details of contributions made by the candidate to the development of new product/application
 - oral or written questioning covering principles of product or application development and the candidate's specific contributions to the development of new product/application.
- Access is required to instruments, equipment, materials, workplace documentation, procedures and specifications associated with this unit, including, but not limited to:
 - a standard laboratory equipped with appropriate pilot batch manufacturing and testing equipment
 - online data search facilities
 - starting material and product formulation information
 - scheduling charts and project plans
 - standard operating procedures (SOPs) and workplace guidelines.
- Assessors must satisfy the assessor competency requirements that are in place at the time of the assessment as set by the VET regulator.
- The assessor must demonstrate both technical competence and currency.
- Technical competence can be demonstrated through:
 - relevant VET or other qualification/Statement of Attainment AND/OR
 - relevant workplace experience.
- Currency can be demonstrated through:
 - performing the competency being assessed as part of current employment OR

- having consulted with a laboratory about performing the competency being assessed within the last twelve months.

Links

MSA Training Package Implementation Guides - <http://mskills.org.au/training-packages/info/>