Australian Government

Department of Education, Employment and Workplace Relations

ICPKN317C Apply knowledge and requirements of the ink manufacturing sector

ISC INDUSTRY SKILLS COUNCILS
Creating Australia's Future

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit describes the performance outcomes, skills and knowledge required to work in the ink manufacturing sector of the printing industry. It facilitates technical communication and the ability to work as a team member.

Application of the Unit

Application of the unit	This unit covers preparation of a person working in the ink manufacturing sector of the printing industry including senior production staff, chemists, laboratory technicians, quality testing and other research and development personnel. This unit underpins all ink manufacture units of competency packaged in the ICP31105 Certificate III in Printing and Graphic Arts (Ink Manufacture).

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		

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Employability Skills Information

Employability skills	This unit contains Employability Skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Apply knowledge of printing industry	1.1. Printing industry terminology and vocabulary are used correctly and accurately 1.2. New technology and new work processes are monitored and implemented when required 1.3. Trends within the printing industry are monitored on an ongoing basis to inform personal work practices
2. Apply knowledge of government acts and regulations	2.1. Basic principles and obligations involved in copyright, OHS, environmental protection, access and equity and industrial awards are understood in relation to the workplace 2.2. The basic principles and obligations involved in copyright, OHS, environmental protection, access and equity and industrial awards are followed in personal work practices
3. Identify categories of the ink manufacturing sector and enterprise products and services	3.1. The scope of the ink manufacturing sector, its products, services and client/supplier profile can be identified 3.2. Enterprise products and services, their characteristics and their end use, specifically with regard to the printing industry, are identified 3.3. Printing processes and procedures and their implication for ink manufacture are understood and used to inform decisions about ink usage
4. Identify enterprise processes and procedures	4.1. Manufacturing processes and quality control procedures for ink/coating/varnish/resin/chemical production are understood and used to inform decisions about ink usage 4.2. Raw material, intermediate and final product testing and recording procedures within the enterprise are identified and applied in personal work practices 4.3. Product research and development capacity and opportunities are identified and explored for professional development and enterprise purposes
5. Apply knowledge of testing procedures	5.1. Appropriate testing procedures for each stage of product manufacture are described, evaluated, and improvements are applied where required 5.2. Workplace quality assurance procedures are understood and applied in the workplace 5.3. Procedures for developing and testing formulae for new product with reference to end use and capability and suitability of manufacturing processes are described and applied in the workplace

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE
This section describes the skills and knowledge required for this unit.
Required skills
- OHS in relation to operating machinery such as safely switching off machinery before cleaning is started   - communication of ideas and information by accurately using correct printing industry terminology and vocabulary   - collecting, analysing and organising information by understanding and applying basic principles and obligations of OHS in the workplace   - planning and organising activities by identifying and applying raw material, intermediate and final product testing procedures in the workplace   - teamwork when understanding and applying workplace quality assurance procedures in the workplace in association with others   - mathematical ideas and techniques by identifying and applying raw material, intermediate and final product recording procedures in the workplace   - problem-solving skills by describing and evaluating appropriate testing procedures for each stage of product manufacture and applying improvements   - use of technology by monitoring and implementing new technology and new work processes
Required knowledge
unit underpins all Certificate III level units of competency in ink manufacture

Evidence Guide

EVIDENCE GUIDE	
The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	Evidence of the following is essential: - assessor must be satisfied that sufficient knowledge and understanding of ink manufacturing production and testing processes (as outlined in each Element) have been demonstrated so that job procedures, requirements and modifications can be intelligently discussed in some detail with a tradesperson, technician, production manager or client - successful assessment of Certificate III level units of competency in ink manufacture - evidence for assessment may be gathered from assessment of the unit of competency alone or through an integrated assessment activity.
Context of and specific resources for assessment	Assessment must ensure: assessment may take place on the job, off the job or a combination of these. Off the job assessment must be undertaken in a closely simulated workplace environment.
Method of assessment	A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit: direct questioning combined with review of portfolios of evidence and third party workplace reports of on-the-job performance by the candidate.
Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.

Range Statement

RANGE STATEMENT	
The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.	
Level of knowledge may include:	• knowledge required to intelligently discuss job procedures, requirements and modifications with a tradesperson, production manager or client.

Unit Sector(s)

Unit sector	

Competency field

Competency field	Holistic Knowledge

Co-requisite units

Co-requisite units		

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