



Australian Government

ICPSUP482 Troubleshoot and optimise materials and machinery

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICP Printing and Graphic Arts Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to experiment with and extend the use of materials, and undertake non-routine adjustment and tuning of machinery to meet efficiency targets.

It applies to individuals who perform a broad range of skilled tasks and services to customers in the printing and graphic arts industry. They may also provide some leadership and guidance to others in the application and planning of the skills.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Support

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Review material behaviour	1.1 Evaluation of material or product structure is conducted to identify options for production 1.2 Material handling options are chosen to ensure best performance of materials during production 1.3 Options are assessed to determine most effective/efficient method of production, ensuring highest quality and yield from materials 1.4 Test run confirms correct options, or the need for further adjustment or trialling to meet quality standards 1.5 Options and recommendations are documented for future

ELEMENT	PERFORMANCE CRITERIA
	reference according to enterprise procedures
2. Tune and adjust machinery	2.1 Idiosyncrasies of machines are reviewed and adjustments or tuning undertaken to compensate or exploit the idiosyncrasy, within the manufacturer's specifications 2.2 Options are assessed to determine most effective/efficient method of production, ensuring highest quality and yield from machinery 2.3 Test run confirms correct options and settings, or the need for further adjustment or tuning to meet quality standards 2.4 Options and recommendations are documented for future reference according to enterprise procedures 2.5 Instruction is provided to machine operator or finisher on new practices, if required
3. Troubleshoot machinery and material problems	3.1 Corrective or preventive action is recommended and implemented where appropriate 3.2 Changes are communicated to relevant personnel in a logical and easily understood manner 3.3 Changes are monitored to confirm improvement to production efficiency 3.4 Ongoing problems are reported according to enterprise procedures

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	2.1, 2.4	Recognises text within job specifications and organisational documentation and follows written instructions
Writing	1.5, 2.4, 2.5, 3.1, 3.2, 3.4	Uses clear, specific and industry related terminology to complete and update workplace documentation
Oral Communication	2.5, 3.2	Clearly explains requirements using language appropriate to audience and environment

Numeracy	1.3, 1.4, 2.2, 2.3	Uses mathematical calculations to confirm equipment settings and adjustments
Navigate the world of work	1.5, 2.4, 3.4	Follows organisational procedures and considers own role in terms of its contribution to broader goals of the work environment
Interact with others	3.4	Uses appropriate communication protocols and conventions to report issues
Get the work done	1.1-1.4, 2.1-2.3, 3.1, 3.3	- Develops plans to manage relatively complex, non-routine tasks with an awareness of how they contribute to organisational goals - Uses systematic, analytical processes to solve problems; setting goals, gathering relevant information and identifying and evaluating options against agreed criteria - Utilises features of digital tools or systems to improve productivity

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICPSUP482 Troubleshoot and optimise materials and machinery	ICPSU482C Troubleshoot and optimise materials and machinery	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a74b7a0f-a253-47e3-8be0-5d426e24131d>

Assessment Requirements for ICPSUP482 Troubleshoot and optimise materials and machinery

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Performance Evidence

Evidence of the ability to:

- recommend and implement new practices that extend every day use of materials and machinery, and troubleshoot problems with material and machinery
- produce a portfolio that demonstrates each element has been carried out (including records of standards and monitoring procedures, and evidence they are being effectively carried out)
- confirm production efficiencies through discussions with senior management and review of workplace documentation.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

Examine design and identification of materials and suitable processes

- explain need to implement change
- identify required changes to existing production areas
- explain how the operation can be integrated into existing organisational processes
- identify materials required in addition to existing ones
- outline alternatives to the chosen process
- explain the decision for choosing a particular process

Review customer and production requirements

- explain the review conducted, to assess the process for suitability for customer requirements
- list different materials that can be used to produce the same results without production problems

- identify production plan information to aid in determining the process

Review existing operations and problems

- describe the impact the process will have on existing operations
- explain how training can be integrated into existing process operations
- describe how the process can eliminate existing production problems

Identify operations and machinery

- explain how to optimise existing machinery or equipment
- describe special provisions that will be necessary to extend the use of equipment
- calculate the expected production life of this equipment and machinery
- identify technology that could see this equipment outdated
- identify technology that could improve this equipment or machinery
- summarise work health and safety considerations for operating machinery.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the Support field of work and include access to machinery and materials.

Assessors must satisfy NVR/AQTF assessor requirements.

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