



Australian Government

PMAOPS350 Match and adjust colour

Release: 1

PMAOPS350 Match and adjust colour

Modification History

Release 1. Supersedes and is equivalent to PMAOPS350B Match and adjust colour

Application

This unit of competency covers the skills and knowledge required to recommend adjustments to bring product colour into the acceptable range using a mixture of colourants. It applies to products, such as:

- paint
- ink
- concrete
- rubber
- plastic
- dye mixes/dyed materials.

Any suitable colourants, such as those below may be used:

- pigments
- dyes
- masterbatches
- tinters.

This unit of competency applies to technicians who are required to apply a significant understanding of colour to prepare colour samples, compare the sample to the standard, and estimate colourant additions needed to bring the batch to standard. The comparison may be done using a 'colour computer' or by eye.

This unit of competency is typically performed by technicians working independently while in liaison with operators, paint/industrial chemists or other personnel.

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

Pre-requisite Unit

Nil

Competency Field

Operations

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|---|--|--|
| 1 | Prepare colour sample | 1.1 Identify required sample properties |
| | | 1.2 Select sample preparation method |
| | | 1.3 Identify required sample preparation conditions |
| | | 1.4 Adjust and control sample preparation conditions |
| | | 1.5 Prepare colour sample |
| | | |
| 2 | Compare colour sample to standard in accordance with procedures | 2.1 Identify light conditions for comparison |
| | | 2.2 Compare colour sample to standard using 'colour computer' and/or by eye |
| | | 2.3 Reconcile data from comparison |
| | | |
| 3 | Recommend adjustments to batch | 3.1 Estimate the colourant additions needed to bring batch to standard |
| | | 3.2 Recommend additions to relevant personnel |
| | | 3.3 Recommend additional mixing/processing requirements to procedure |
| | | 3.4 Repeat sample preparation, colour matching and adjustment until correct colour is obtained |

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Regulatory framework The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used, and include one or more of the following:

- legislative requirements, including work health and safety (WHS)
- industry codes of practice and guidelines
- environmental regulations and guidelines
- Australian and other standards
- licence and certification requirements

All operations to which this unit applies are subject to stringent health, safety and environment (HSE) requirements, which may be imposed through state/territory or federal legislation, and these must not be compromised at any time. Where there is an apparent conflict between performance criteria and HSE requirements, the HSE requirements take precedence.

Hazards Hazards include one or more of the following:

- electricity
- equipment failures
- industrial (machinery, equipment and product)
- noise, rotational equipment or vibration
- plant services (steam, condensate and cooling water)
- limited head spaces or overhangs
- flammability and explosivity
- hazardous products and materials
- unauthorised personnel
- slippery surfaces, spills or leaks
- other hazards that might arise

Procedures All operations must be performed in accordance with relevant procedures.

Procedures are written, verbal, visual, computer-based or in some other form, include one or more of the following:

- work instructions
- standard operating procedures (SOPs)

- safe work method statements (SWMS)
- formulas/recipes
- batch sheets
- temporary instructions
- any similar instructions provided for the smooth running of the plant

Unit Mapping Information

Release 1. Supersedes and is equivalent to PMAOPS350B Match and adjust colour

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=9fc2cf53-e570-4e9f-ad6a-b228ffdb6875>