



Australian Government

PPMNUM210 Estimate and calculate basic data

Release: 1

PPMNUM210 Estimate and calculate basic data

Modification History

Release	Comment
1	Replaces equivalent unit FPPNUM210A Estimate and calculate basic data, which was first released with FPP10 Pulp and Paper Manufacturing Industry Training Package Version 1.0 This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to estimate, calculate and record basic data in the pulp and paper industry. This work typically is typically undertaken in an industry setting of complex integrated equipment and continuous operations.

This unit applies to those who estimate and calculate basic data in the pulp and paper industry.

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

Pre-requisite Unit

Nil

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.
1. Identify and interpret workplace data	1.1. Select and interpret numerical information required for routine workplace tasks 1.2. Interpret and comprehend whole numbers and routine or familiar percentages, ratios and volume calculations used in the workplace
2. Estimate and undertake basic calculations	2.1. Use basic arithmetic for workplace calculations 2.2. Undertake calculations to meet process points and production requirements 2.3. Make estimations of calculations to check results are within

ELEMENTS	PERFORMANCE CRITERIA
	realistic limits
3. Use workplace measuring equipment	3.1. Select and use measuring instruments to accurately measure equipment settings and product characteristics 3.2. Measure product characteristics and process points and calculate variations from standard in accordance with work/occupational health and safety (WHS/OHS), environmental and safe working practices 3.3. Identify and report measuring instrument faults to ensure that they are available for subsequent use
4. Record data	4.1. Record results using standard methods and following workplace requirements 4.2. Identify possible incorrect recordings by comparing with estimations and historical data 4.3. Report abnormal results to appropriate personnel

Foundation Skills

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

Range of Conditions

Not Applicable

Unit Mapping Information

FPPNUM210A Estimate and calculate basic data

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingPackages.aspx/Pages/Home.aspx>

Assessment Requirements for PPMNUM210 Estimate and calculate basic data

Modification History

Release	Comment
1	Replaces equivalent unit FPPNUM210A Estimate and calculate basic data, which was first released with FPP10 Pulp and Paper Manufacturing Industry Training Package Version 1.0. This is the first release of this unit in the new standards format. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including 'Required Skills and Knowledge, Evidence Guide and Range Statement'.

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit, and must be able to provide evidence of the ability to:

- use measuring instruments at least twice in line with required enterprise intervals to take production measurements including:
 - product quality
 - delay
 - waste
 - speed
 - tonnage
 - throughput
 - asset utilisation
 - machine efficiency
- estimate and calculate basic measures used in production operations, at least twice in line with required enterprise intervals, including:
 - product characteristics - dimensions, weight and volume
 - production timelines and processing speed
- use basic operations of arithmetic required for production operations, involving whole numbers, fractions and decimals, including:
 - addition
 - subtraction
 - multiplication
 - division

- percentages
- ratios and proportions
- write numerical information accurately and legibly
- record basic workplace data accurately on statistical process charts, production tally sheets and other formats required for the pulp and paper industry
- identify standard faults in measuring instruments
- estimate measures using whole numbers and decimals
- verify estimations against relevant calculations.

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- place value and use of zero
- number systems including integers and mixed numbers, rational numbers (fractions), decimals, percentage
- reasons for estimating
- basic methods of estimation, including rounding
- basic arithmetic, geometric and other measures used in pulp or paper production
- types and purpose of measuring instruments
- methods for taking basic production measurements
- purpose of recording statistical data.

Assessment Conditions

The following resources must be made available:

- access to the full range of equipment involved in estimating and calculating basic data in a pulp or paper manufacturing facility
- sample workplace documentation, procedures and reports including (SOP), quality procedures, environmental sustainability requirements/practices, plant manufacturing operating manuals and enterprise policies and procedures.
- relevant personnel for the purposes of communicating information

Competency is to be assessed in the workplace or in a productive environment that accurately reflects performance in a workplace.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingPackages.aspx/Pages/Home.aspx>