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| Title | Use information technology to inform primary industry management decisions | | |
| Level | 4 | Credits | 7 |

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| Purpose | <p>This unit standard is for people working in a primary industry context.</p> <p>People credited with this unit standard are able to, for a primary industry enterprise: use information technology to gather data from relevant sources to inform primary industry management decisions; use information technology to filter, aggregate and display the gathered data as information; and perform primary industry management practices in response to information gathered.</p> |
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| Classification | Primary Sector > Primary Sector Resources Management |
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| Available grade | Achieved |
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Guidance Information

- 1 All evidence presented in this unit standard must be in accordance with:
 - Workplace requirements;
 - Manufacturers guidelines;
 - Health and Safety at Work Act 2015;

And any subsequent amendments.

- 2 Definitions

Accuracy means a degree of correctness or precision attached to data that is accepted as representing the real world truthfully.

Completeness means the state or condition of having all the necessary or appropriate data.

Data means facts and statistics collected together for reference or analysis.

Information means data that is processed, interpreted, organized, structured or presented in a way that makes them meaningful or useful.

Information technology means the use of systems for gathering, storing, retrieving, and sending or presenting information, and may include, but is not limited to:

 - Physical measurement tools, such as soil moisture meters, compaction meters, weather stations, laser levels, dumpy levels, total stations, GPS receivers
 - Remote sensing tools such as Normalised Difference Vegetation Index (NDVI) or Light Detection and Ranging (LIDAR) from satellites, aircraft or Remotely Piloted Aircraft Systems (RPAS, or “drones”).

Workplace procedures – the procedures and standards set down by the client or employing organisation for evaluating the effectiveness of management decisions.

Workplace refers to a specific entity which may be – in private, public, or community and volunteer sectors; a business, a separate unit within a larger entity, or a special-purpose body. It may form part of an organisation's activities or it may constitute a complete organisation.

Workplace requirements may include but are not limited to:

- purpose and/or direction
- policies
- compliance – legislative, legal
- risk management
- sustainability.
- Forecasting and modelling tools, such as weather forecasting websites
- Data management portals
- Geographic Information Systems (GIS).

3 Assessment

Assessment for this unit standard is based on evidence from an authentic primary industry enterprise.

Outcomes and performance criteria

Outcome 1

Use information technology to gather data from relevant sources to inform primary industry management decisions in accordance with the manufacturer's guidelines.

Performance criteria

1.1 Gather data relevant to the decisions using information technology.

Range data gathering may include but is not limited to – manually recording measurements, automatically recording measurements, remote sensing and recording measurements.

1.2 Evaluate data for completeness and accuracy.

1.3 Gather additional data where required to ensure completeness and accuracy of the data.

Outcome 2

Use information technology to filter, aggregate and display the gathered data as information.

Performance criteria

2.1 Filter data to remove that which is not relevant to the decision being made.

2.2 Group data for the purposes of manipulating and displaying data as numerical values.

2.3 Aggregate data, where appropriate, from various sources to provide rich data for interpretation as information.

2.4 Display information in a way that enables decisions about primary industry management practices to be made effectively.

Range information display types may include but is no limited to – geographically, as charts or graphs, in tabular form; digitally - as interactive dashboards, or static displays, or in print.

Outcome 3

Perform primary industry management practices in response to information gathered.

Performance criteria

3.1 Interpret information in terms of the current condition of the primary industry.

3.2 Make decisions regarding the management of primary industry based on the interpretation of the information.

3.3 Carry out management practices consistent with the decisions made.

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| Planned review date | 31 December 2022 |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|--------------|---------|-----------------|--------------------------|
| Registration | 1 | 25 January 2018 | N/A |
| Revision | 2 | 24 January 2019 | N/A |

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| Consent and Moderation Requirements (CMR) reference | 0052 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.