

Title	Develop GS1 bar codes and prepare a bar code quality programme		
Level	4	Credits	7

Purpose	People credited with this unit standard are able to: create numbers to meet GS1 standards; select symbology appropriate to GS1 numbers; demonstrate knowledge of bar code location requirements; demonstrate knowledge of bar code and related data requirements for product to be marketed in Australasia; and prepare a bar code quality programme and produce a report on its implementation.
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Classification	Printing > Print Industry Management
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Available grade	Achieved
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Guidance Information

- 1 Global Standards One (GS1) replaced the term EAN. GS1 is the international body that administers the GS1 system of identification in automatic data capture, previously known as the EAN.UCC system. For reference to GS1 publications and standards refer to <http://www.gs1nz.org/> or <http://www.gs1nz.org/standards/>.
- 2 Definitions
EAN – European Article Number.
GTIN – Global Trade Item Number.
SSCC – Serial Shipping Container Code.
UPC – Uniform Product Code.

Outcomes and performance criteria

Outcome 1

Create bar code numbers in accordance with GS1 standards.

Performance criteria

- 1.1 8-digit GTINs are explained in terms of how they are obtained.
 Range GS1 prefix, item identification, check digit.
- 1.2 12 and 13-digit GTINs are created.
 Range GS1 prefix, item identification, check digit.

1.3 14-digit GTINs are created.

Range GS1 prefix, item identification, check digit.

1.4 SSCCs are created.

Range extension digit, GS1 prefix, serial number, check digit.

1.5 GTINs and supplementary data are expressed in GS1-128 format.

Range application identifiers (AIs).

1.6 Check digits are calculated correctly.

Range manual calculation, GS1 programme, GS1 member.

Outcome 2

Select symbology appropriate to GS1 numbers.

Range UPC-E, UPC-A, EAN-8, EAN-13, ITF-14, GS1-128, DataBar.

Performance criteria

2.1 Knowledge of symbologies appropriate to GS1 numbers is demonstrated in relation to scanning environment, data capacity of symbol, and size range of symbol.

2.2 Symbols appropriate for GS1 numbers are selected in accordance with GS1 standards.

Outcome 3

Demonstrate knowledge of bar code location requirements.

Performance criteria

3.1 Location requirements for bar codes are explained.

Range distance from edges, number of symbols; retail, non-retail.

Outcome 4

Demonstrate knowledge of bar code and related data requirements for product to be marketed in Australasia.

Performance criteria

4.1 Bar code and data requirements of the Australasian grocery trade are listed.

- 4.2 Differences between Australia and New Zealand bar code requirements, where they exist, are explained.

Outcome 5

Prepare a bar code quality programme, and produce a report on its implementation.

Performance criteria

- 5.1 Critical points for maintaining bar code quality in the workplace are identified.
- 5.2 Implementation measures that will ensure quality standards are met are documented for each critical point identified in performance criterion 5.1.
- 5.3 A report on the implementation of a bar code quality programme is produced.

Range the report defines a process that may include – roles and responsibilities in relation to bar coding; training of personnel involved; notifications of technical changes and updates; compliance checking system and method of recording actions in event of bar code non-compliance; verification testing system; audit system.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	17 November 2004	31 December 2022
Review	2	20 March 2008	31 December 2022
Revision	3	12 December 2008	31 December 2022
Rollover and Revision	4	31 May 2018	31 December 2022
Review	5	23 July 2020	31 December 2022

Consent and Moderation Requirements (CMR) reference	0005
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.