

- AS90310 – a minor amendment has been made to the title and to the achievement criterion for achievement and achievement with excellence to improve fitness for purpose without altering the intent of the standard. The credits allocated have been increased from four to five to reflect the learning time required for this standard. The explanatory notes have been extended and changed to better organise the material and clarify the standard.
- AS90311 – the credits allocated have been decreased from four to three to reflect the learning time required for this standard. A minor amendment has been made to the achievement criterion for achievement with excellence. The explanatory notes have been extended and changed to better organise the material and clarify the standard.

Internally assessed achievement standard 90307, which is a Category C review, will expire in December 2005.

Impact on existing provider accreditations

None.

Impact on Accreditation and Moderation Action Plan (AMAP)

AMAP 0226 has been updated to reflect that AS90307 has been replaced by AS90763.

Impact on existing qualifications

None.

Impact of changes on [NCEA Exclusions List](#)

None.

Summary of main changes to achievement standards' Ids, classification, titles, levels, and credits

The following summary shows the changes made to the achievement standards as a result of the review. All changes are in **bold**.

Key to review category

- A** Dates changed, but no other changes are made - the replacement achievement standard carries the same Id and a new version number
- B** Changes made, but the overall outcome remains the same - the replacement achievement standard carries the same Id and a new version number
- C** Major changes that necessitate the registration of a replacement achievement standard with a new Id
- D** Achievement standard will expire and not be replaced

Subfield Science
Domain Chemistry

Id	Title	Level	Credit	Review Category
90305	Carry out qualitative analysis	2	2 3	B
90306	Perform an acid-base volumetric analysis Carry out an acid-base volumetric analysis	2	3	B

Id	Title	Level	Credit	Review Category
90307 90763	Carry out a gravimetric or calorimetric analysis and solve related problems Solve simple quantitative chemical problems	2 2	3 2	C
90308	Describe the nature of structure and bonding in different substances	2	4	B
90309	Describe the structural formulae and reactions of compounds containing selected organic functional groups	2	4	B
90310	Describe principles of chemical reactivity Describe thermochemical and equilibrium principles	2	4 5	B
90311	Describe oxidation-reduction reactions	2	4 3	B