

- AS90455 – the first achievement criterion has been deleted and changes have been made to the second criterion. Corresponding changes have been made to the explanatory notes.
- AS90456 – the title, the order and wording of the achievement criteria, and the explanatory notes have been changed.

Impact on existing provider accreditations

None.

Impact on Accreditation and Moderation Action Plan (AMAP)

None.

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 Agricultural and Horticultural Science

Id	Title	Level	Credit	Review Category
90450	Carry out a practical agricultural or horticultural investigation with supervision Carry out a practical agriculture or horticulture investigation with supervision	2	4	B
90451	Describe physical factors of the environment and techniques used to modify these for plant production Describe physical factors of the environment and techniques used to modify them for plant production	2	4	B

Id	Title	Level	Credit	Review Category
90452	Describe management practice(s) used to optimise the soil water/air ratio for plant processes Describe how techniques used to modify soil water content optimise primary production	2	4	B
90453	Describe methods used to modify livestock reproduction or plant propagation Describe modification of livestock reproduction or plant propagation to improve productivity	2	4	B
90454	Describe growth and development and productivity in livestock or plants Describe manipulations to influence growth and development, and productivity, in livestock or plants	2	4	B
90455	Describe how livestock behaviour impacts on productivity	2	4	B
90456	Examine and redesign landscaped area(s) Describe and redesign landscaped sites	2	4	B