

Changes to certification manual (2021)

Several modules have been reordered for a better in-class training flow.

Module 1

Page 1-2: New section 1.2 Disclaimer

Page 1-5: New section 1.3.4 Tips on Identifying Watercourses

Module 2

This was previously Module 8 and has been moved up in the manual

Page 2-1: New public list of certified individuals available (must opt in if interested)

Page 2-3: Regarding wetlands, maintenance and upgrades to existing infrastructure that result in no more than 100 m² of permanent wetland impacts are exempt from the compensation requirement and are permitted within Certification

Module 4

Page 4-7: New section 4.3.2 Information to Gather During the Field Inspection

Page 4-7: New section 4.3.3 Measuring Watercourse Features

Module 5

New module. Surveying and Designing Watercourse Crossings

Module 6

Page 6-1: Species at risk in relation to watercourse crossings

Page 6-2 (and 6-30): Energy dissipation pools must be constructed at the outlet of all closed-bottom culverts

Page 6-2: Minimum culvert diameter permitted is 600 mm (pipe arch 680 mm x 500 mm). Maximum is dictated by a maximum drainage area upstream of the culvert of 20 sq. km

Page 6-3: Maximum length for a new culvert is 25 m. Maximum length for a replaced culvert is 30 m.

Page 6-7: New coefficient for calculating design flow is $Q \text{ (m}^3\text{/sec)} = 1.64A$

Page 6-19: New figure 6-13 Typical cross-section (can be used with application)

Page 6-21: New section 6.5.1 Culvert length when Using Headwalls

Module 7

Page 7-2: Species at risk in relation to watercourse crossings

Page 7-3: Maximum length for a new culvert is 25 m

Page 7-4: Maximum flow velocity through open-bottom culverts is 3 m/sec

Page 7-13: Maximum flow velocity through bridges is 3 m/sec

Page 7-14: New coefficient for calculating design flow is $Q \text{ (m}^3\text{/sec)} = 1.64A$

Module 8

Page 8-6: New section Brush Maintenance within Right-of-Ways

Module 9

New module. Erosion and Bank Protection

Module 10

New module. Timber Harvesting

Module 11

New module. Water Intake Structures

Module 12

New module. General Requirements for all Watercourse Alterations