

Title	Select management practices and prepare an erosion and sediment control plan for an infrastructure worksite		
Level	5	Credits	10

Purpose	People credited with this unit standard are able to: <ul style="list-style-type: none"> – select management practices to minimise the discharge of sediment for an infrastructure worksite; and – prepare an erosion and sediment control (ESC) plan for an infrastructure worksite.
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Classification	Infrastructure Works > Generic Infrastructure Works
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Available grade	Achieved
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Guidance Information

- 1 Learning and assessment for this unit standard must be in accordance with the following:
 - Health and Safety at Work Act 2015;
 - Resource Management Act 1991;
 - Heritage New Zealand Pouhere Taonga Act 2014;
 - Resource Management (National Environmental Standards for Plantation Forestry) Regulations 2017 (forestry earthworks regulations 22-35); and all subsequent amendments and replacements.
- 2 Definitions

Controls refer to methods or procedures used to prevent, remedy or mitigate environmental impact.

Erosion and sediment control plan refers to measures that are implemented to minimise erosion and subsequent sediment loss from a site as a result of land disturbance activities. It has two parts, a written methodology and a site plan.

Infrastructure worksite refers to a site with activity relating to any of: the construction and maintenance of infrastructure assets such as road, rail, port, airport, and utilities; demolition; bulk earthworks; quarrying; asphalt production; and bitumen storage and application.

Te Aranga Design Principles refer to Rangatiratanga, Kaitiakitanga, Manaakitanga, Wairuatanga, Kotahitanga, Whanaungatanga, Mātauranga.

Outcomes and performance criteria

Outcome 1

Select management practices to minimise the discharge of sediment for an infrastructure worksite.

Performance criteria

- 1.1 Site assessment is completed to identify environmental values of and risks to the surrounding environment to determine if additional controls are required.
- Range land type, topography, soil type and composition, vegetation, hydrological patterns, climatic conditions, groundcover, sensitivity of the receiving environment, catchment areas, community values and concerns.
- 1.2 Te Aranga Design Principles that provide guidance around culturally appropriate design processes and design responses are considered during the preparation of the ESC plan.
- 1.3 Compliance requirements for the worksite are completed in accordance with external and internal environmental legal obligations.
- Range may include but is not limited to – legislation, regulations, national policy statement, policies, plans, guidelines, consent requirements.
- 1.4 Construction methodology is considered to determine how the site works will be carried out.
- Range minimise disturbance, stage construction, protect slopes, protect watercourses, stabilise exposed areas, install perimeter controls and devices, employ sediment retention devices, trained contractors, adjust ESC plan.
- 1.5 Controls for preventing erosion are determined for the worksite.
- Range water management controls, and soil/surface stabilisation controls.
- 1.6 Controls for controlling sediment are determined for the worksite.

Outcome 2

Prepare an erosion and sediment control (ESC) plan for an infrastructure worksite.

Performance criteria

- 2.1 The ESC plan is prepared to meet the requirements of the worksite.
- Range site description, soil, slope and total site area.
- 2.2 The ESC plan is prepared to meet the requirements of the Programme of Works.
- Range timeframes, staging plans, areas of disturbance, length of exposed areas, cut/fill volumes, stockpiles, vegetation.

- 2.3 Erosion and sediment plan drawings for the worksite are completed including site plans and design specifications.
- 2.4 Information for the ESC plan is prepared in terms of details of the receiving environment and methodology for implementing controls.
- 2.5 Performance criteria for monitoring the ESC plan are prepared in terms of inspections, monitoring and maintenance of measures.
- 2.6 Emergency procedures are prepared for accidental discharge of sediment to surface water.
- 2.7 Compliance and legal obligations are addressed in terms of internal and external requirements.

Range allocation of roles, communications plans, identify higher risks, accidental discovery protocols, monitoring and record keeping.

Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 October 2019	N/A

Consent and Moderation Requirements (CMR) reference	0101
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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 Connexis - Infrastructure Industry Training Organisation qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.