



Australian Government

RIICRC301D Maintain drainage systems

Release: 2

RIICRC301D Maintain drainage systems

Modification History

Release	Comment
1	This unit replaces RIICRC301A Maintain drainage systems
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to maintain drainage systems in Civil Construction.

This unit is appropriate for those working in operational roles

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

Civil construction

Elements and Performance Criteria

1. Plan and prepare to maintain drainage systems	<p>1.1 Access, interpret and apply drainage systems maintenance documentation and ensure the work activity is compliant</p> <p>1.2 Obtain, read, interpret, clarify and confirm work requirements</p> <p>1.3 Identify and address potential risks, hazards and environmental issues, and implement control measures</p> <p>1.4 Select and wear correct personal protective equipment appropriate for work activities</p> <p>1.5 Locate initial design specifications and/or engineer's redesign</p> <p>1.6 Locate drainage maintenance schedule and records of maintenance history</p> <p>1.7 Determine temporary stormwater diversion requirement in accordance with existing drainage outlets, site requirements and</p>
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	planned schedule of construction
2. Maintain drainage components	<p>2.1 Regularly inspect and maintain drainage components and rectify or report faults</p> <p>2.2 Repair drainage components as per initial design specifications and/or engineer's redesign</p> <p>2.3 Flush out drainage system to clear blockages and provide clear flows of fluid</p>
3. Excavate and repair drainage systems	<p>3.1 Determine location of repairs from work order and survey site</p> <p>3.2 Carry out excavation in accordance with task specifications</p> <p>3.3 Prepare pipes and accessories in accordance with design method of repair</p> <p>3.4 Replace pipe sections and join and align to line and specified fall</p> <p>3.5 Install packing to maintain alignment of pipeline</p> <p>3.6 Make joints to pipe section junctions in accordance with specification requirements</p> <p>3.7 Backfill required section</p> <p>3.8 Conduct inspection and testing of repaired drainage system to determine effectiveness of repairs</p>
4. Maintain open drains	<p>4.1 Maintain open drains to correct line and fall specifications</p> <p>4.2 Finish surfaces adjoining open drains allowing ease of run off</p> <p>4.3 Undertake adequate erosion control methods</p>
5. Inspect, clear and repair culverts	<p>5.1 Identify faults in culverts and determine appropriate repair requirements and specifications</p> <p>5.2 Repair/replace sections and joint to levels and design specifications</p> <p>5.3 Repair/maintain inlets and outlets in accordance with culvert design and specifications</p> <p>5.4 Compact backfill</p>
6. Clean up	<p>6.1 Clear work area and dispose of or recycle materials</p> <p>6.2 Seal and store/pack unused materials</p> <p>6.3 Clean, check, maintain and store plant, tools and equipment</p>

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIICRC301A Maintain drainage systems

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>