

<b>Title</b>	<b>Demonstrate understanding of the principles of sports turf irrigation system design and installation</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	<p>This unit standard is for people working in a sports turf context.</p> <p>People credited with this unit standard are able to demonstrate understanding of the principles of sports turf irrigation system design and installation.</p>
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<b>Classification</b>	Sports Turf > Sports Turf Management
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Performance criteria must be consistent with all relevant procedures, guidelines, and legislation (and their subsequent amendments) which include but are not limited to:
  - Workplace procedures
  - Equipment manufacturer's guidelines
  - Health and Safety at Work Act 2015.
- 2 Definitions
 

*Workplace procedures* – the procedures and standards on safety and operation set down by the employer or host organisation for irrigation system installation.

In the context of this unit standard, *understanding* means that there should be evidence of a learner's thorough comprehension of a topic. A learner with a good understanding of a topic should have applied, or should be able to apply what they have learnt to a workplace situation and will be able to alter their practices to the different contexts they are applying their learning to. Assessors should be confident that the learner's understanding is embedded in their practices and behaviour.

### Outcomes and performance criteria

#### Outcome 1

Demonstrate understanding of the principles of sports turf irrigation system design and installation.

**Performance criteria**

1.1 Describe irrigation system design in terms of the specific requirements for sports turf irrigation.

Range must include but is not limited to – water source, water quality, sprinkler head spacing, overlap, pipe sizes, pressures, flow rates, precipitation rates, run times, friction losses.

1.2 Describe an irrigation system layout in relation to its design.

Range may include but is not limited to – location of water supply, pumps and head works, filters, main lines, lateral lines valves, controller, satellites, emitters; evidence is required for at least four items.

1.3 Describe installation procedures for sports turf irrigation systems in accordance with manufacturer’s recommendations, irrigation system design, and workplace procedures.

Range must include but is not limited to – staking, trenching, pipe laying, gluing techniques, pipe pulling, risers, valves, control lines, backfilling, line flushing, sprinkler head positioning, pressure testing.

<b>Replacement information</b>	<p>This unit standard and unit standard 30591 were replaced by unit standard 32743.</p> <p>This unit standard and unit standard 30591 replaced unit standard 1166.</p>
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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 2018	31 December 2023
Review	2	24 June 2021	31 December 2023

<b>Consent and Moderation Requirements (CMR) reference</b>	0052
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.