



Australian Government

RIISTD202E Collect routine site samples

Release: 1

RIISTD202E Collect routine site samples

Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 6.0.

Application

This unit describes the skills and knowledge required to collect routine site samples in the resources and infrastructure industries, including determining sample quantity, frequency and type, and collecting, storing and transporting samples.

It applies to those working in production operator, field assistant and laboratory assistant roles. They generally work under supervision to undertake a prescribed range of functions involving known routines and procedures and take some responsibility for the quality of work outcomes.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories and industry sectors. Users must check requirements with relevant body before applying the unit.

Unit Sector

Civil construction

Coal mining

Drilling

Extractive industries

Metalliferous mining

Mineral exploration

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare for sampling	1.1 Obtain, interpret, clarify and confirm work instructions 1.2 Access, interpret and apply documentation required to collect routine site samples 1.3 Select and wear personal protective equipment according to site

ELEMENT	PERFORMANCE CRITERIA
	requirements 1.4 Confirm and coordinate site access, clearances and permits 1.5 Identify, address and report environmental issues, potential hazards and risks 1.6 Confirm sampling method according to sample plan and job requirements 1.7 Select plant, tools and equipment required to carry out tasks and check for faults 1.8 Identify, confirm, and locate materials required for work application
2. Collect and store samples	2.1 Collect samples according to job requirements 2.2 Preserve sample integrity 2.3 Place samples in containers and label according to job requirements 2.4 Document representative sampling, sampling environment, and non-standard aspects according to job requirements 2.5 Store and transport samples according to job requirements 2.6 Maintain sampling equipment
3. Prepare and recover samples	3.1 Verify sample, confirm documentation and equipment for preparation according to job requirements 3.2 Prepare samples according to job requirements 3.3 Contain loss of material and protect sample against contamination 3.4 Recover and clean samples according to sample type and job requirements 3.5 Store or dispose of residues and samples according to site requirements
4. Prepare samples for dispatch	4.1 Label, store and transport samples according to job requirements 4.2 Use reference materials, standards and controls according to job requirements 4.3 Document change to preparation methods according to job requirements 4.4 Forward samples to external laboratories for analysis 4.5 Store, test and dispose of samples according to site requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Numeracy	Calculates basic measurements including mass and dimensions
Self-management	Monitors and minimises own exposure to worksite risks and hazards during work activities

Unit Mapping Information

Supersedes and is equivalent to RIISTD202D Collect routine site samples.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for RIISTD202E Collect routine site samples

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- collect routine site samples on at least two occasions, including:
 - interpreting sample plan to identify type of sample requested and location, quantity and frequency of sampling
 - collecting, storing and transporting samples, including:
 - minimising environmental impacts
 - maintaining integrity of samples
 - protecting against contamination.

During the above, the candidate must:

- locate and apply required legislation, documentation, policies and procedures
- identify, report and record hazards and risks
- implement the requirements, procedures and techniques for the completion of collecting routines site samples, including:
 - solving problems associated with collecting routine site samples
 - applying techniques to recover and clean samples
 - minimising and disposing of waste
- work with others to collect routine site samples that meet required outcomes, including:
 - communicating with others to obtain permits and coordinate access to sampling area
 - using communication techniques and equipment to convey information to others
 - completing written and verbal reporting requirements and procedures.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- legislation required to collect routine site samples
- policies, procedures and documentation required to collect routine site samples, including those relating to:
 - hazard and risk management
 - work health and safety
 - emergency response
 - site and equipment safety
 - environmental protection
 - waste management
 - communication techniques and equipment
 - operational, maintenance and basic diagnostic procedures
 - project quality requirements job plans and specifications
- principles and techniques required to collect routine site samples, including those relating to:
 - sampling terminology, including:
 - sample
 - contamination
 - traceability
 - integrity
 - chain of custody
 - purpose of sampling
 - types of samples
 - site hazards
 - representative sampling
 - sample preparation
 - maintenance of integrity samples
 - sampling tools
- types, characteristics, technical capabilities and limitations of plant and equipment required to collect routine site samples, including:
 - hand tools
 - carrying devices
 - sampling frames, tubes, spears, flexible bladders, syringes
 - access valves
 - sample thief
 - weighted sample bottles
 - sterile containers
 - pipettes
 - mechanical gravity separator
 - high specific gravity liquids
 - hand magnet

- isodynamic magnetic separator
- materials safety data sheet (SDS) compliance processes
- components of job safety analyses (JSAs), job safety environmental analyses (JSEAs), and safe work method statements (SWMs)
- civil construction terminology relating to collecting routine site samples.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - personal protective equipment
 - equipment required to collect routine site samples
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with required legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 years
Other sectors	Where this unit is being assessed outside of the resources and infrastructure sectors assessor and/or industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no industry standard is specified should comply with any relevant regulation.	

*Guidance on simulated environments has been stipulated in the RII implementation guide located on VETNet.

**Assessors can demonstrate current work experience through employment within industry in a role relevant to the outcomes of the unit; or, for external assessors this can be demonstrated through exposure to industry by conducting a minimum number of site assessments as determined by the relevant industry sector, across various locations.

***While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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