



**Australian Government**

# **RIISV403E Participate in well servicing nipping-up and pressure test**

**Release: 1**

## RIIWSV403E Participate in well servicing nipping-up and pressure test

### Modification History

| Release   | Comments                                                                                                 |
|-----------|----------------------------------------------------------------------------------------------------------|
| Release 1 | This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0. |

### Application

This unit describes the skills and knowledge required to perform well servicing nipping-up and pressure testing in drilling. It prepares individuals to carry out nipping-up of blow out prevention (BOP), perform BOP and pressure testing, and carry out rig-up to drill out operations.

It applies to those working in supervisory or technical specialist roles. They generally perform tasks involving a broad range of varied activities most of which are complex and non-routine and are responsible for the quantity and quality of the output of others.

Licensing, legislative and certification requirements that may 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

Drilling (Well Servicing)

### 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 nipping-up and pressure testing | 1.1 Obtain, read, confirm and apply work instructions<br>1.2 Access, interpret and apply compliance documentation and legislation and confirm work activity is compliant<br>1.3 Identify and minimise environmental issues and potential hazards, and assess and address risks within scope of own role and according to workplace procedures<br>1.4 Confirm personnel coordination requirements at the site are met prior to commencement of work activities |

| ELEMENT                  | PERFORMANCE CRITERIA                                                                                                                                                                                                        |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | 1.5 Check and adjust surface equipment pressure ratings and compatibility                                                                                                                                                   |
| 2. Perform nipple-up     | 2.1 Identify manufacturer and site requirement for selected blow out prevention system<br>2.2 Supervise or participate in connecting BOP to casing<br>2.3 Supervise or participate in nipple-up of BOP                      |
| 3. Perform pressure test | 3.1 Perform accurate BOP test<br>3.2 Carry out rig-up to drill-out operations according to parameters, specifications and operations<br>3.3 Carry out pressure tests prior to operations and record in writing test results |

## 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                                                                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reading            | <ul style="list-style-type: none"> <li>Identifies and interprets complex information from workplace procedures, documentation, legislation and regulations</li> </ul> |
| Oral communication | <ul style="list-style-type: none"> <li>Presents workplace procedures and technical instructions to others using sector-specific vocabulary</li> </ul>                 |

## Unit Mapping Information

Supersedes and is equivalent to RIIWSV403D Participate in well servicing nipple-up and pressure test.

## Links

Companion Volume implementation guides is found on VETNet -

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

## Assessment Requirements for RIISV403E Participate in well servicing nipping-up and pressure test

### Modification History

| Release   | Comments                                                                                                 |
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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:

- participate in well servicing nipping-up and pressure test, including:
  - inspecting and adjusting equipment pressure ratings
  - carrying out nipping-up of blow out prevention (BOP)
  - performing BOP and pressure testing
  - carrying out rig-up to drill out operations
  - processing written records and reports.

During the above, the candidate must:

- locate and apply required legislation, documentation, policies and procedures
- work with others to participate in well servicing nipping up and pressure testing to meet required outcomes, including:
  - complying with written and verbal reporting requirements and procedures
  - communicating with others to receive and clarify work instructions
  - communicating with others to determine coordination requirements throughout work activities.

### 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:

- key legislation required for participating in well servicing nipping-up and pressure test
- key policies, procedures and established requirements for participating in well servicing nipping-up and pressure test, including those for:
  - carrying out high pressure lines requiring pressure testing
  - environmental and safety issues

- testing equipment and procedures
- rig maintenance
- performing gas testing
- identifying and managing surface production equipment
- identifying well head pressure ratings
- pressure recording equipment operations
- PSV ratings and operations
- managing and monitoring nipple up and pressure testing within a team environment
- well head pressure identification
- well head type identification, including for:
  - seal pockets
  - down hole gauges
  - stuffing boxes
  - DSA flanges
- re-pressure testing
- knowledge and use of test equipment
- converting between metric and imperial measurements
- performing a range of numerical calculations, including:
  - volume
  - quantity
  - mass
  - weight
  - length
  - pressure
  - using calculator if required
  - using estimating skills (including mental arithmetic, visualisation of size and quantity)
  - basic geometry (including interpreting depth, direction, angles).

## Assessment Conditions

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

- include access to:
  - personal protective equipment
  - equipment required to participate in well servicing nipple-up and pressure test
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant 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 |                                                                |

| Industry sector | AQF indicator level***                                                                                                                                                                    | Required assessor or industry subject matter expert experience |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|                 | 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 Companion Volume 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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