Modification history

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| Release | Comments |
| Release 1 | This version released with Racing and Breeding Training Package Version 3.0. |

| RGRHBR408 | Collect, process and evaluate horse semen for artificial insemination |
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| Application | This unit of competency describes the skills and knowledge required to collect, process, analyse quality and supply horse semen to clients for artificial insemination breeding.  The unit applies to individuals who work under broad direction and take responsibility for their own work. They complete routine activities dealing with predictable and unpredictable problems relating to their work in the horse breeding sector.  All work must be carried out to comply with workplace procedures, according to state/territory animal welfare and health and safety regulations, legislation and standards that apply to the workplace.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Performance services horses (PSH) |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Prepare for and collect horse semen | 1.1 Follow workplace procedures for work health and safety, biosecurity and animal welfare when collecting semen  1.2 Select and prepare appropriate equipment for semen collection including personal protective equipment (PPE)  1.3 Handle nominated stallion calmly and safely and prepare for semen collection in controlled area  1.4 Collect semen from the stallion using hygienic and industry accepted collection techniques  1.5 Handle and transfer semen safely and promptly to the processing area |
| 2. Complete post-collection procedures | 2.2 Clean work area and equipment and dispose of waste following workplace procedures  2.3 Wash down stallion and return to stable or designated area |
| 3. Process horse semen within required timeframes | 3.1 Test semen for infectious diseases according to workplace procedures  3.2 Prepare, sanitise and calibrate equipment and tools used in processing semen  3.3 Ensure optimal temperature of incubator and other equipment and materials used to process semen before use  3.4 Prepare diluent (semen extender) and additives to maintain sperm viability according to workplace procedures  3.5 Determine number and volume requirements and prepare semen doses |
| 4 Assess quality of horse semen | 4.1 Examine semen batch and check for contamination  4.2 Analyse semen to assess motility of semen and other indicators of fertility  4.3 Compare quality of semen batch against horse breeding industry benchmarks  4.4 Discard poor quality semen according to workplace procedures  4.5 Store semen either fresh, chilled or frozen in accordance with industry best practice and timeframes for use |
| 5. Complete records and supply horse semen | 5.1 Label and record details of semen doses according to workplace procedures  5.2 Store semen at correct temperature to maintain viability and meet transportation needs  5.3 Complete required documentation and records accurately and promptly  5.4 Organise transport of semen to clients for artificial insemination of mares |

| Foundation Skills  This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria. | |
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| Skill | Description |
| Numeracy | * Use mathematical concepts to calculate ratio, percentages, volume and quantities related to semen collected * Calibrate equipment and temperature |
| Navigate the world of work | * Take responsibility for following industry and regulatory requirements for own role and area of work |
| Get the work done | * Plan, sequence and prioritise activities to achieve outcomes * Carry out processing tasks efficiently to required time frames |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| RGRHBR408 Collect, process and evaluate horse semen for artificial insemination | Not applicable | New unit | No equivalent unit |

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| Links | Companion Volumes, including Implementation Guides, are available at VETNet:  https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=5c4b8489-f7e1-463b-81c8-6ecce6c192a0 |

| TITLE | Assessment requirements for RGRHBR408 Collect, process and evaluate horse semen for artificial insemination |
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| Performance Evidence | |
| An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.  There must be evidence that the individual has:   * prepared and collected semen from three stallions using industry approved techniques * processed, stored and organised transportation of fresh, chilled and/or frozen semen * documented processes and recorded information relevant to semen collected from each stallion. | |

| Knowledge Evidence |
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| An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:   * types, uses and maintenance of personal protective equipment for collecting and handling semen * types and purpose of equipment, including: * artificial vagina * thermometers * warmed containers and equipment * non-spermicidal gel * equipment to measure motility and sperm concentration * requirements and features of controlled semen collection areas * techniques for safe and humane handling and restraint of horses * methods, techniques and procedures for: * cleaning work areas and sterilising equipment used in semen collection and processing * handling, measurement and usage of cleaning chemicals, disinfectants and sanitisers processing and storing semen * types of equine infectious diseases transmitted through artificial insemination * analysis and evaluation of semen, including for: * volume * motility * concentration * sperm morphology * presence of bacteria * presence of urine and/or blood * longevity * semen quality tests, including the per-cycle pregnancy rate * semen storage, including fresh, chilled or frozen * key features of relevant workplace procedures, regulations and codes of practice relating to collecting and processing horse semen, including: * health and safety * environmental requirements for disposal of biological waste * biosecurity, hygiene and infection control * animal welfare requirements * documentation and records. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * a workplace or an environment that accurately represents workplace conditions * resources, equipment and materials: * various stallions * materials and equipment relevant to semen collection and analysis * specifications * workplace procedures.   Training and assessment strategies must show evidence of the use of guidance provided in the  Companion Volume: User Guide: Safety in Equine Training.  Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. |

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