



Australian Government

# **RGRPSG408 Relate musculoskeletal structure to greyhound movement**

Release: 1

# RGRPSG408 Relate musculoskeletal structure to greyhound movement

## Modification History

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

## Application

This unit of competency describes the skills and knowledge required to apply knowledge of the musculoskeletal structure of greyhounds and link it to greyhound movement particularly in relation to training and racing.

The unit applies to individuals who work with greyhound owners, trainers and veterinarians to assist with optimising the health of racing greyhounds.

All work must be carried out to comply with workplace procedures, according to state/territory animal welfare and health and safety regulations, legislation, state-based licensing arrangements and standards that apply to the workplace.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

## Pre-requisite Unit

Nil

## Unit Sector

Performance Services Greyhounds (PSG)

## Elements and Performance Criteria

| Elements                                                              | Performance Criteria                                                                                                                                                                  |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i>                      | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                |
| 1. Examine the key structures of the greyhound musculoskeletal system | 1.1 Identify the bones and joints within the greyhound musculoskeletal system and relate to their purpose<br>1.2 Identify the types of soft tissues and the relationship of ligaments |

| Elements                                                                                  | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i>                                          | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                           | and tendons to the musculoskeletal system<br>1.3 Relate the operation of the major musculoskeletal structures to body stability, movement, power and stamina                                                                                                                                                                                                                                                                                                                |
| 2. Locate greyhound muscles and supporting tissues                                        | 2.1 Locate deep and superficial muscles of significance to power and locomotion<br>2.2 Define muscle actions, origin and insertion points<br>2.3 Identify tendons and ligaments of significance to power and locomotion                                                                                                                                                                                                                                                     |
| 3. Identify changes in the greyhound musculoskeletal system due to growth and performance | 3.1 Identify key changes to the greyhound musculoskeletal system due to growth at early life stages<br>3.2 Identify the impact of overtraining and injury on the musculoskeletal system<br>3.3 Identify changes to toes and feet that can occur as a result of exercise, ailments and injury<br>3.4 Apply knowledge of musculoskeletal systems to healing processes and recovery times for minor injuries<br>3.5 Identify changes in behaviour indicating pain and distress |

## 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.*

| Skill              | Description                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reading            | <ul style="list-style-type: none"> <li>Interpret key features of anatomical diagrams of the greyhound musculoskeletal system</li> </ul>                                 |
| Oral communication | <ul style="list-style-type: none"> <li>Use correct anatomical and industry terminology to communicate information about the greyhound musculoskeletal system</li> </ul> |
| Get the work done  | <ul style="list-style-type: none"> <li>Use common workplace technology to record and convey information</li> </ul>                                                      |

## Unit Mapping Information

| Code and title<br>current version                                               | Code and title<br>previous version | Comments | Equivalence status |
|---------------------------------------------------------------------------------|------------------------------------|----------|--------------------|
| RGRPSG408<br>Relate<br>musculoskeletal<br>structure to<br>greyhound<br>movement | Not applicable                     | New unit | No equivalent unit |

## Links

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

# Assessment Requirements for RGRPSG408 Relate musculoskeletal structure to greyhound movement

## Modification History

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

## 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:

- identified and located the following musculoskeletal features of greyhounds:
  - major bones and joints
  - main muscles, ligaments and tendons
- used correct anatomical and industry terminology to relate information about the greyhound musculoskeletal system
- identified changes in the musculoskeletal system related to growth for at least one greyhound and explained the potential impact on movement
- identified changes in the musculoskeletal system related to performance for at least one greyhound and explained the potential impact on movement.

## Knowledge Evidence

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:

- greyhound health and welfare principles
- overview of bones and joints in the greyhound musculoskeletal system, including:
  - spine – neck, thoracic and lumbar spine
  - thorax – ribs and sternum
  - front leg – shoulder joint, spine of the scapula, elbow joint, carpal joint, metacarpal phalangeal joints, inter phalangeal joints
  - hind leg – hip joint, stifle joint, tarsal joint, metatarsal phalangeal joints, inter phalangeal joints
- overview of muscles, ligaments and tendons in the greyhound musculoskeletal system, including
  - spine – paravertebral muscles, intervertebral ligaments

- trunk – rib musculature
- front leg – triceps, biceps brachii muscle, flexor carpi radialis muscle and tendon,
- hind leg – psoas muscle, tensor fascia lata muscle, quadriceps muscles, semimembranosus and semitendinosus muscles, gastrocnemius muscle and tendon
- how musculoskeletal structures relate to body stability, movement, power and stamina
- changes to bone due to age, exercise and injury
- bone development during growth periods, including:
  - tibial crest
  - radial and distal ulna growth plates
- changes to soft tissues as a result of growth, exercise, ailments and injury
- healing processes and recovery times for injuries
- minor dysfunction or injury, including:
  - muscle strain
  - bruising
  - tendon and ligament sprain
  - abraded pads, nail tears
  - acidosis (low grade)
- signs of greyhound behaviour indicating pain or distress, including:
  - vocalisation, yelping
  - pulling away, stiffness, restricted movement.

## Assessment Conditions

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:
  - greyhound
  - anatomical drawing/s and/or model.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

## Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5c4b8489-f7e1-463b-81c8-6ecce6c192a0>