Veterinary Physiotherapy

REGULATIONS

Requirements for registration to practise a Para-veterinary profession:
Veterinary Physiotherapy

Section 21 G: Requirements for registration

Any applicant that applies for registration as a Veterinary Physiotherapist shall—

(a) Submit a certificate of competence in mathematics and physical science or biology/life sciences issued for school leaving purposes by a competent secondary level schooling authority of South Africa; or
(b) The relevant qualification as stipulated by the South African Veterinary Council
(c) Comprise of the completion of at least four academic years of study as a registered Veterinary Physiotherapy student; and
(d) Be constituted of the exit level outcomes specified in the Table A.
(e) Be constituted of the subject courses specified in Table B

Upon completion of the “Veterinary Physiotherapy” degree a registered “Veterinary Physiotherapy” student may, if the examining authority is satisfied that the provision of the Act and these regulations have been successfully complied with, be registered as a “Veterinary Veterinary Physiotherapist”.

Section 21 H: Curriculum requirements

The curriculum of any tertiary institution that offers a course for study for qualification as a “Veterinary Physiotherapy” in terms of regulation shall comprise of the exit level outcomes specified in Table A and the subject courses specified in Table B.

Section 21 I: Examination

1) The examination for degree shall be based on the assessment criteria specified in Table 9 A and includes examination in the subject courses specified in Table 9 B
2) If the examination consists of a practical and a theoretical part, a subminimum mark of 40 percent must be obtained in each part.
3) A candidate shall pass an examination in a subject if at least 50 percent of the maximum marks obtainable in the examination for that subject, is obtained
9 A: Exit level outcomes

EXIT- LEVEL OUTCOMES:

Veterinary Physiotherapists at NQF Level 8 are expected to be responsible for their own work, decision making and use of resources and to be fully accountable for the decisions and actions of others where appropriate. They are expected to apply learning strategies in a self-critical manner to effectively address their own and others’ professional and ongoing learning needs.

### Exit outcome 1
Communicate academic and professional Veterinary Physiotherapist ideas and related information verbally and in writing to a range of audiences with due regard for the purpose of the communication, issues of confidentiality and other ethical considerations.

| NQF 5: 7.5 credits | NQF 6: 9 credits | NQF 7: 19 credits | NQF 8: 35 credits (70.5) |

<table>
<thead>
<tr>
<th>Specified Outcome</th>
<th>Assessment Criteria</th>
<th>Range</th>
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<tbody>
<tr>
<td>1. NQF 5: 3 credits NQF 6: 3.2 credits NQF 7: 7.5 credits NQF 8: 11.5 credits</td>
<td>AC1.1 Verbal and non-verbal communications offer insight and solutions to problems in a Veterinary Physiotherapist context and are appropriate for the audience and purpose of the communication.</td>
<td>Range: Verbal communications include, but are not limited to, giving feedback, reporting to Owner, Trainer and Animal Health Team, facilitation, presentations and interviews.</td>
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<tr>
<td>1. NQF 5: 3 credits NQF 6: 3.6 credits NQF 7: 5.5 credits NQF 8: 9.5 credits</td>
<td>AC1.2 Written communication offers rigorous interpretation and solutions to problems and issues and is professional, accurate, coherent and correct in terms of style, tone, sensitive use of language and use of scientific register where applicable.</td>
<td>Range: Written communication includes, but is not limited to, recording of evaluation and treatment, report writing, giving written feedback, writing referrals, proposal writing, legal documentation, documenting evidence, writing research reports and journal articles.</td>
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<tr>
<td>1. NQF 5: 1.5 credits NQF 6: 1.2 credits NQF 7: 3 credits NQF 8: 9 credits</td>
<td>AC1.3 Active listening and observation skills demonstrate ability to access, process and synthesise information and to develop creative responses to problems and issues which are recorded accurately, concisely and coherently.</td>
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<tr>
<td>1. NQF 5: 0 credits NQF 6: 1 credits NQF 7: 3 credits NQF 8: 5 credits</td>
<td>AC1.4 Knowledge of current events, issues and affairs relating to the development of the profession and international and local research is interrogated from multiple sources of knowledge, interpreted, assessed for relevance and applied where appropriate.</td>
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Exit outcome 2
Demonstrate knowledge and insight into veterinary therapy science concepts and their importance in the evaluation of animal patients and appropriate treatment techniques:
Range; Concepts include, but are not limited to, anatomy, conformation and physiology, applied therapy, behavior, discipline, pathology, tack, nutrition, farriery, pharmacology, imaging, welfare status and human animal bond. 1.
**NQF 5: 26.5 credits**
**NQF 6: 12 credits**
**NQF 7: 63 credits**
**NQF 8: 38 credits**
(139.5)

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| 1.                | **NQF 5: 13.5 credits**  
**NQF 6: 7.1 credits**  
**NQF 7: 20 credits**  
**NQF 8: 10 credits** | AC2.1 The relationship between anatomy, conformation and Veterinary Physiotherapist is explained with reference to biomechanics, movement analysis, motor control, exercise and the purpose and effectiveness of different treatment techniques. | |
| 1.                | **NQF 5: 13 credits**  
**NQF 6: 3.3 credits**  
**NQF 7: 16 credits**  
**NQF 8: 9.5 credits** | AC2.2 Knowledge of veterinary physiology is used to explain how muscles, bone, neural tissue and organs function and interact as an holistic living system in an animal. | |
| 1.                | **NQF 5: credits**  
**NQF 6: 1.6 credits**  
**NQF 7: 15 credits**  
**NQF 8: 9.5 credits** | AC2.3 Pathologies and dysfunction of the neuro-musculoskeletal system and the cardiorespiratory system are explained with reference to the progress of a disease or injury and what treatment is appropriate at different stages. | |
| 1.                | **NQF 5: credits**  
**NQF 6: 3 credits**  
**NQF 7: 12 credits**  
**NQF 8: 9 credits** | AC2.4 Factors that could influence the outcome of Veterinary Physiotherapist are discussed with reference to the holistic treatment approach of animal patients and the complexities and uncertainties of selecting, applying or transferring appropriate procedures to unfamiliar problems. | |

Exit Outcome 3:
Integrate theory and practice to treat patients with a variety of neuro-musculoskeletal and cardiorespiratory dysfunctions.
**NQF 5: 7.5 credits**
**NQF 6: 22.5 credits**
**NQF 7: 62.5 credits**
**NQF 8: 65 credits**
(157.5)

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| 1.                | **NQF 5: 3 credits**  
**NQF 6: 11.5 credits**  
**NQF 7: 22.5 credits**  
**NQF 8: 23.5 credits** | AC3.1 A full Veterinary Physiotherapist specific evaluation is conducted for a variety of animal patients. | |
| 1.                | **NQF 5: 2 credits**  
**NQF 6: 7 credits**  
**NQF 7: 16 credits** | AC3.2 A treatment program based on the Veterinary Physiotherapist evaluation is set up to enhance Range: Treatment techniques could include, but are not limited to soft tissue techniques, | |
### Exit Outcome 4:
Analyze, synthesize, evaluate and review complex Veterinary Veterinary Physiotherapist related information in order to conceptualize a problem and produce an evidence based argument or solution to an authentic Veterinary Veterinary Physiotherapist situation.

1. **NQF 5:** 0 credits  
   **NQF 6:** 4 credits  
   **NQF 7:** 25.5 credits  
   **NQF 8:** 17 credits  

#### Specified Outcome

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| 1. **NQF 5:** 0 credits  
  **NQF 6:** 1.5 credits  
  **NQF 7:** 9.5 credits  
  **NQF 8:** 6 credits | AC4.1 Knowledge of research designs and methodologies is applied to research in a Veterinary Veterinary Physiotherapist context. | Range: Research design and methodology may include, but are not limited to, Participatory and Action Research; Qualitative and Quantitative Research, Case Studies and Intervention-Based Research |
| 1. **NQF 5:** 0 credits  
  **NQF 6:** 1.5 credits  
  **NQF 7:** 8 credits  
  **NQF 8:** 7 credits | AC4.2 A Veterinary Veterinary Physiotherapist related topic is researched and includes a literature review, pilot study and evidence-based research. | |
| 1. **NQF 5:** 0 credits  
  **NQF 6:** 1 credits  
  **NQF 7:** 8 credits  
  **NQF 8:** 4 credits | AC4.3 A research report is compiled based on actual research | |

### Exit outcome 5
Operate ethically in a multidisciplinary Animal Health Team

1. **NQF 5:** 3 credits  
   **NQF 6:** 3.5 credits  
   **NQF 7:** 12.5 credits  
   **NQF 8:** 18 credits  

#### Specified Outcome

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</table>
| 1. **NQF 5:** 2 credits  
  **NQF 6:** 6.2 credits  
  **NQF 7:** 6.5 credits  
  **NQF 8:** 9 credits | AC5.1 Interaction with the Animal Health Team, Owners, Trainers and Patients is ethical and it reflects the Codes of Conduct for Veterinary Veterinary Physiotherapists, the South African Veterinary Council and applicable legislation. | |
| 1. | AC5.2 Decisions relating to the | |
Exit outcome 6
Demonstrate an understanding of the concepts of responsibility and accountability within own scope of practice in a Veterinary Veterinary Physiotherapist context.

1. NQF 5: 3 credits
   NQF 6: 4 credits
   NQF 7: 6 credits
   NQF 8: 16 credits

(29)

Specified Outcome | Assessment Criteria | Range
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1. NQF 5: 1 credits
   NQF 6: 2 credits
   NQF 7: 2 credits
   NQF 8: 6 credits | AC6.1 The roles and responsibilities of Veterinary Veterinary Physiotherapists are explained with reference to scope of practice, avenues for referral and the consequences if the scope of practice, professional code of ethics and applicable legislation are contravened. | Range: Skills and techniques include, but are not limited to, self-awareness, self-management, self-reflective capacity, interpersonal and intrapersonal skills.

1. NQF 5: 1 credits
   NQF 6: 1 credits
   NQF 7: 2 credits
   NQF 8: 6 credits | AC6.2 Skills and techniques for personal development and awareness are explored with a view to developing personal capacity to reflect and understand self and others and to fully realise own potential. | Range: Skills and techniques include, but are not limited to, self-awareness, self-management, self-reflective capacity, interpersonal and intrapersonal skills.

1. NQF 5: 1 credits
   NQF 6: 1 credits
   NQF 7: 2 credits
   NQF 8: 5 credits | AC6.3 Responsibility and accountability are discussed with reference to the management of a Veterinary Veterinary Physiotherapist Practice and continuing professional development. | Range: Skills and techniques include, but are not limited to, self-awareness, self-management, self-reflective capacity, interpersonal and intrapersonal skills.

Assessment Criteria for the Critical Cross-Field Outcomes:

The learner is able to demonstrate ability to:

- Use a range of specialised skills to identify, analyse and address complex, complicated and/or abstract problems drawing systematically on the body of knowledge and methods appropriate to Veterinary Physiotherapist. This is implicit in Exit Level Outcome (ELO) 2, 3 and 4.
- Work effectively with others as a member of a team, group, organisation or community. Veterinary Physiotherapists work as part of a multi-disciplinary Animal Health Team. This is implicit in ELO 1, 3, 5 and 6.
- Organise and manage him/herself and his/her activities responsibly and effectively in completing tasks timeously. This is implicit in ELO 4, 6 and 3 where time management and planning are essential.
- Collect, organise and critically evaluate information. This is implicit in ELO 1, 2, 3 and 4.
- Communicate effectively using visual, mathematics and language skills in the modes of oral and/or written presentations. This is implicit in ELO 1, 2, 3, 4, 5 and integrated throughout
the qualification in that sound communication skills are essential in working with a multidisciplinary Animal Health Team, Owners, Trainers and patients.

- Use science and technology effectively and critically in using technology for treatment where appropriate and in using electronic devices for communication and the Internet for research. This is implicit in ELO 1, 2, 3 and 4.
- Demonstrate an understanding of the world as a set of related systems by recognising that problem-solving contexts do not exist in isolation. This is implicit in ELO 1, 2, 3, 4 and 6 in evaluating a patient, planning an appropriate treatment, assessing the effectiveness of the treatment and adapting the treatment.

In addition this Qualification contributes to the full personal development of each learner and the social and economic development of the society at large, by making it the underlying intention of any programme of learning to make the individual aware of the importance of:

- Reflecting on and exploring a variety of strategies to learn more effectively. This is implicit in ELO 1, 4, and 6.
- Being cultural sensitivity across a range of social contexts in dealing with diverse people, multi-disciplinary Animal Health Team, Owners, Trainers and co-owners, communities and co-workers. This is implicit in ELO 1, 3, 4, 5 and 6.

Programmes based on this Qualification must take the Quality Council for Higher Education (QCHE) requirements into account. For this programme:

- Minimum total credits: 480
- Minimum credits at Level 7: 120
- Minimum credits at Level 8: 96
- Maximum credits at Level 5: 96
- The balance of the 480 credits may be at Levels 6, 7 and/or 8.

In the delivery of this Qualification, four hundred credits based on Exit Level Outcomes 1 to 6 and the practical and clinical components are compulsory.

Exit Level Outcomes 1 to 6 326 credits
Work Integrated Learning 106 credits
Total 432 credits

Electives
Learners should select at least two specialisation areas that together add up to a minimum of 24 credits at Level 7 from the list of possible electives. Additional areas of specialisation that relate directly to Veterinary Veterinary Physiotherapist may be included at the discretion of the Higher Education Institution.

Possible electives may include, but are not limited to:

- Small animal surgical rehabilitation
- Equine surgical rehabilitation
- Equine Sport Science – the working and competition animal
- Canine Sport Science – the working and competition animal

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<tr>
<td>General Sciences I</td>
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<tr>
<td>Applied &amp; Clinical Therapy I</td>
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<tr>
<td>Soft Tissue Techniques, Stretching, Orthopedics, General</td>
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<tr>
<td>Topics, first aid, animal husbandry, breeds and disciplines</td>
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<td>-----------------------------------------------------------</td>
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<tr>
<td>Therapy Science I</td>
</tr>
<tr>
<td>Biomechanics</td>
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<td>Movement Analysis</td>
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<td>Rehabilitation exercises</td>
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<tr>
<td>Veterinary Physiology I</td>
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<td>Veterinary Anatomy I</td>
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<td><strong>Second Year</strong></td>
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<tr>
<td>Introduction to Veterinary Nutrition II</td>
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<tr>
<td>Introduction to Veterinary Dentistry II</td>
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<tr>
<td>Therapy Science II</td>
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<tr>
<td>Biomechanics, movement analysis, motor control</td>
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<tr>
<td>Veterinary Pathophysiology, Pathology and Surgery II</td>
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<td>Applied &amp; Clinical Therapy II</td>
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<td><strong>Third Year</strong></td>
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<tr>
<td>Veterinary Pharmacology III</td>
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<td>Veterinary Exercise Physiology III</td>
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<td>Farriery III</td>
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<td>Veterinary Imaging III</td>
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<tr>
<td>Research I</td>
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<tr>
<td>Applied &amp; Clinical Therapy III</td>
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<tr>
<td>Manual Therapy, Cardiorespiratory therapy, Hydrotherapy, Practice management, ethics and law, Clinical – sport, soft tissue, surgical</td>
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<tr>
<td><strong>Fourth Year</strong></td>
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<tr>
<td>Research II</td>
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<tr>
<td>Equine Sport Science IV</td>
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<tr>
<td>Large Animal Surgery IV</td>
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<td>Canine Sport Science IV</td>
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<tr>
<td>Small Animal Surgery IV</td>
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<td>Applied &amp; Clinical Therapy IV</td>
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Total Credits: 120