

Kinetherapeutic Equine Shoeing International Course

Ongoing training for farriers and vets organised by:

Michel Vaillant – BP 124 – 74302 Cluses cedex – France

Taught by:

Pr. Jean-Marie Denoix – DVM – PhD – Associate Professor

Course held at:

CIRALE – U.P. Clinique Equine – Goustranville – 14430 Dozulé – France



a - General aims

Present a further training course in horse shoeing techniques, as part of the Equine Sector Competitiveness Cluster, in the Centre for Imaging and Research into Equine movement-related disorders (CIRALE).

The concept of therapeutic shoeing is the result of many biomechanical studies carried out over the last 2 decades, demonstrating that anatomical, joint and tendon formations can be independently treated by modifying the balance of the hoof from front to rear or side to side.

b - Inventory and knowledge

Farriers' and vets' training is frequently limited to knowledge of the hoof and its disorders, whereas many other pathological entities can benefit from therapeutic shoeing (for example: medium joint disorders and tendon injuries).

c - Specific aims

Provide farriers and vets with more thorough knowledge of how horses move and with the technical resources for correcting movement-related anomalies through the use of therapeutic horseshoes.

Public concerned:

Priority is given to farrier + vet tandems with prior training and frequently exercising their profession together in the region, with a view to joint performance via debriefings and practical application on completion of each course.

If the quota of 40 people, i.e. 20 tandems, is not reached, we will accept individual farriers and vets, whether French or foreign nationals, employed or having their own business.

The course will be given in French (translation into English for foreign candidates as per the quota). However, a basic knowledge of English is required as course material (slides) and scientific papers are mainly in English.

Prerequisites:

French farriers/vets must hold a BTM diploma (French technical professional diploma) or have at least 5 years in business or practising.

Established or employed vets.

Course programme:

1 – Organised in 6 modules, with 2 training modules per year. Each module will last for 2 full days (16 hours). The training given, not including personal work, will comprise a total of 96 hours.

The Modules could be studied separately, spread out over a period of no more than 5 years.

- Module 1 Programme: The region of the hoof and pastern – Duration 2 days (16 hours)

This module will tackle specific descriptive and functional aspects of anatomy as well as biomechanical data of the region of the hoof and pastern.

The main bone, joint and tendon disorders will be presented, and their rational treatment using the appropriate therapeutic shoeing will be proposed and discussed. The course will be completed by clinical cases documented by videos and a precise diagnostic using current medical imaging techniques.

- Module 2 Programme: The region of the fetlock, metacarpal joint and tendons – Duration 2 days (16 hours)

This module will tackle specific descriptive and functional aspects of anatomy as well as biomechanical data of the region of the fetlock, metacarpal joint and tendons.

The main bone, joint and tendon disorders will be presented, and their rational treatment using the appropriate therapeutic shoeing will be proposed and discussed. The course will be completed by clinical cases documented by videos and a precise diagnostic using current medical imaging techniques.

- Module 3 Programme: The region of the proximal thoracic limb (from the carpal joint to the shoulder) - Duration 2 days (16 hours)

This module will tackle specific descriptive and functional aspects of anatomy as well as biomechanical data of the region of the proximal thoracic limb (from the carpal joint to the shoulder).

The main bone, joint and tendon disorders will be presented, and their rational treatment using the appropriate therapeutic shoeing will be proposed and discussed. The course will be completed by clinical cases documented by videos and a precise diagnostic using current medical imaging techniques.

- Module 4 Programme: The posterior region: hoof, pastern, metatarsal joint, tendon and hock - Duration 2 days (16 hours)

This module will tackle specific descriptive and functional aspects of anatomy as well as biomechanical data of the region of the hoof, pastern, metatarsal joint, tendon and hock.

The main bone, joint and tendon disorders will be presented, and their rational treatment using the appropriate therapeutic shoeing will be proposed and discussed. The course will be completed by clinical cases documented by videos and a precise diagnostic using current medical imaging techniques.

- Module 5 Programme: Region of the proximal pelvic limb (from the tarsal joint to the hip) - Duration 2 days (16 hours)

This module will tackle specific descriptive and functional aspects of anatomy as well as biomechanical data of the region of the proximal pelvic limb (from the tarsal joint to the hip).

The main bone, joint and tendon disorders will be presented, and their rational treatment using the appropriate therapeutic shoeing will be proposed and discussed. The course will be completed by clinical cases documented by videos and a precise diagnostic using current medical imaging techniques.

- Module 6 Programme: Axial regions (neck, back and pelvis) - Duration 2 days (16 hours)

This module will tackle specific descriptive and functional aspects of anatomy as well as biomechanical data of the axial regions (neck, back and pelvis).

The main bone, joint and tendon disorders will be presented, and their rational treatment using the appropriate therapeutic shoeing will be proposed and discussed. The course will be completed by clinical cases documented by videos and a precise diagnostic using current medical imaging techniques.

2 – Personal work for the final examination will consist in:

a – Preparing 5 documented cases of horses exhibiting movement-related disorders (if possible: photos, videos, X-rays and ultrasound scans). The aim of each presentation is to demonstrate the horse's problem, present the kinetherapeutic shoeing used and show how the horse progresses with this treatment.

b – Preparing a critical analysis of 3 papers published in scientific and professional reviews. The aim is to learn to identify the contributions and, in particular, the mistakes in / limits of the papers published in order to make positive progress in professional knowledge.

c – Preparing the presentation of a short subject taken from professional practice (illustrated).

An examination will be held on completion of the course (see below). It will comprise an assessment of acquired knowledge by MCQ, a presentation of the cases treated during the candidate's professional activity (illustrated by photos, videos and, if possible, imaging documents taken from veterinary examinations), a critical analysis of papers published in scientific and professional reviews, and a presentation of a subject taken from the candidate's professional practice.

Pedagogical organisation

All courses will be taught by Professor Jean-Marie Denoix (see the trainer sheet in Appendix 2).

These courses will be both theoretical and practical, based only on pathological knowledge of use to farriers and vets.

Practical courses will use the equipment and infrastructures provided by CIRALE.

Courses will not tackle the horseshoe forming phases or the actual shoeing process.

The prerequisites assume that these points are already fully mastered by the candidates.

Final examination

Only candidates who have followed all the courses without exception are entitled to sit the examination.

Each farrier and vet will sit the examination individually, whether or not they worked as a tandem during the courses.

An examination will be held on completion of the 6 course modules. It will comprise:

1. An assessment of acquired knowledge by MCQ

Coefficient 2/ 10

2. A practical assessment of knowledge on a base of video documents presenting horses with movement-related disorders and/or a physical + anatomical examination on live horses.

Coefficient 2/10

3. A presentation of cases treated (5) during the candidate's professional activity, illustrated by photos, videos and, if possible, imaging documents taken from veterinary examinations.

Coefficient 3/10

4. A critical analysis of papers published (3) in scientific and professional reviews. Different subjects on internet.

Coefficient 2/10

5. Presentation of a short subject taken from professional practice (illustrated).

Coefficient 1/10

To pass the examination, candidates must obtain an average mark of 12/20 and at least 10/20 in each test.

Certificate

Successful candidates shall thus be declared:

“Certified by the Kinetherapeutic Equine shoeing International Course”

Candidates failing the examination must retake either the tests they failed or all the tests.

BIOGRAPHICAL DETAILS

Name : DENOIX Jean-Marie
 Titles, degrees : DVM, PhD, agrégé, Professor of Veterinary Anatomy and Equine lamenesses
 Employer : Ecole Nationale Vétérinaire d'Alfort
 Mailing address : CIRALE - IPC
 Goustranville 14 430 Dozulé (France)
 Work phone : 33 2 31 27 85 55 ; Fax 33 2 31 27 85 57
 e.mail : jmdenoix@vet-alfort.fr
 Home phone : +33 231 27 85 59 - +33 149 76 90 40

Date & place of qualification

1977 Graduated (DVM) from the National Veterinary School of Lyon

Post-graduate career, degrees, qualifications

Since 2006 President of the ISELP (International Society of Equine Locomotor Pathology)
 Since 1999 Head of the CIRALE - Normandy (Center of Imaging and Research on Equine Locomotor Affections)
 Since 1997 Member of the Scientific Committee of the CESMAS (Conference on Equine Sports Medicine and Science)
 Since 1991 Director and co-director of the INRA Research Unit « Equine Biomechanics and Locomotor Pathology in horses»
 1990-1998 Vice-president of the European Association of Veterinary Anatomists
 1990-1997 Editor of "Pratique Vétérinaire Equine" the francophone journal about equine practice
 1988-1999 Professor of Veterinary Anatomy, Chairman. National Veterinary School of Alfort (Paris) Head of the Equine Clinical Unit. National Veterinary School of Alfort
 1983-1988 Head of the Radiology department (small and large animals) in the National Veterinary School of Lyons
 1987 Doctor of the University of Lyons (Equivalent of the PhD)
 1983 "Agrégation" in Anatomy of the French Veterinary Schools

Awards

- 2003 : Richard Hartley Clinical Prize – Equine Veterinary Journal Award for a paper of outstanding scientific merit
- 2005 : Tierklinik Hochmoor Prize at Equitana, Essen, Germany for creativity and significant amount of work having contributed to an international development in Equine Orthopedics
- 2006 : Schering Plough Equine Research Award from the World Equine Veterinary Association for outstanding applied research work in Equine Diagnostic Imaging

Current clinical activities

- Head of the Equine Clinical Unit, National Veterinary School of Alfort (Paris)
- Referred cases for diagnosis and imaging of equine locomotor problems and causes of poor performance at CIRALE

Research activities

- Comparative imaging (computed radiography, ultrasonography, thermography, nuclear scintigraphy, Magnetic Resonance Imaging) in horses, especially ultrasonography of joints
- Biomechanics and functional anatomy of the equine locomotor system
- Osteoarticular disorders in young horses

Areas of major professional interest : locomotor system of the horse

- Anatomy
- Imaging techniques: Magnetic Resonance Imaging, Ultrasonography, Radiography, Scintigraphy, Thermography
- Biomechanics
- Lamenesses

Publications and conferences

- Invited speaker at numerous international meetings in more than 30 countries all over the world, on topics related to clinical examination and imaging of equine locomotor problems
- Author of numerous papers, 3 books and contributor to 7 international books
- Reviewer for Equine Vet Journal, Equine Vet Education, Horse Betting Levy Board, Pratique vétérinaire équine