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Result 5

A comprehensive testing and certification system for movement analysis and intercultural communication

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The objective of Result 5 (R5) was to develop a complete and validated system for testing and certifying the knowledge, skills, and competencies acquired by participants in the online course on Movement Analysis and Therapy and Intercultural Communication. This system includes the test methodology, question development, online infrastructure, and a standardized certificate template.

The Result includes five main components:

R5A1: The test format and methodology

Test format: All tests use closed questions, including single-choice questions (one correct answer and three distractors), True/False, and YES/NO types. Questions may contain images from lessons or links to relevant videos.

Module tests: Integrated at the end of each lesson for feedback and at the end of each module.

The Module test consists of 25 questions (20 on Movement Analysis and 5 on Intercultural Communication). One point is given for each correct answer. No negative points for incorrect answers are given. Passing the test requires 80% correct answers (20 points) within a 30-minute time limit. Immediate feedback is provided: correct answers are marked green and incorrect ones red. Participants have access to their answers and feedback. Unlimited, free re-takes of the module test are possible if failed.

Final certification test: Available to registered users who complete all lessons.

The Final certification test consists of 45 questions on both Movement Analysis and Intercultural Communication. 30 questions are randomly selected from the 300 questions on Movement Analysis content (15 modules x 20 questions) and 15 questions are randomly selected from the 75 questions on Intercultural Communication content (15 modules x 5 questions). One point is given for each correct answer. No negative points for incorrect answers are given. Passing the test requires 80% correct answers (36 points) within a 60-minute time limit. Only students who pass the test obtain a self-generated certificate.

R5A2: Test questions and answers

A set of 20 Movement Analysis questions and 5 Intercultural Communication questions was developed for each of the 15 modules. Answers were developed for all of the questions.

Questions and answers were subjected to a rigorous validation process by independent control groups at the TPM in Alicante, ensuring their content correctness, clarity, relevance, and alignment with learning outcomes.

The final version of the questions and answers was established and translated into national languages. The questions and answers are available in Partner languages and the English language. They are accessible to registered users via <https://mov-e.academy.knowledgeinnovation.eu/courses/final-exam/>.

R5A3: The online test infrastructure

The technical structure was developed, and the questions, answers, and scoring criteria (from R5A1 and R5A2) were uploaded. Test parameters, including duration, attempt limits, and module alignment, were configured. The infrastructure was integrated with the online course platform, and its correct functioning (display, links, multimedia) was tested and validated by students, academic teachers, and practitioners. The completed, validated online test infrastructure is available in English and all partner languages. It is accessible to registered users via <https://mov-e.academy.knowledgeinnovation.eu/courses/final-exam/>.

R5A4: The certification template

A standard certificate template in English and in Partner languages was designed to formally confirm the acquisition of qualifications. The certificate content was defined to include key information such as the participant's name, course title, certified competencies, and completion date, aligned with the learning outcomes. The template was verified for formal and legal compliance in partner countries.

This result provides a robust and pedagogically sound assessment tool for the online course. The emphasis on immediate feedback and unlimited re-takes for module tests actively supports the learning process, turning assessment into a form of active learning and knowledge consolidation. The finalized certification system ensures that acquired qualifications in movement analysis and intercultural communication are verified and confirmed by a standardized, high-quality, and legally compliant certificate across all partner institutions.



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CERTIFICATE OF ACCOMPLISHMENT MOVE

Development of Intercultural Communication Skills in Physiotherapy Practice
through an E-Learning Course on Movement Analysis and therapy

This is to certify that

[Participant's Full Name]

has successfully completed the online course

"MOVE: Integrating Musculoskeletal Care Techniques and Communication Skills in
Physiotherapy Education" comprising 45 hours of learning, including practical scenarios,
patient interaction models, and core physiotherapy techniques.

This course is part of the MOVE project, co-funded by the European Commission, and has
been designed to enhance the skills of physiotherapy students and professionals, improve
education methodologies, and foster international cooperation in healthcare education.

Date of Completion: [Insert Date]

Certificate ID: [Insert ID or leave blank]

Delivered by the MOVE Consortium



Development of Intercultural Communication Skills in Physiotherapy Practice through an E-Learning Course on Movement Analysis and therapy – MOV-E

Project ref: 2022-1-PL01-KA220-HED-000089228

Learning outcome on Intercultural Communication

The professional/participant is able to identify, recognize and respect similar and different social and cultural identities and their characteristics (ethnic groups, age groups, different sexual preferences, different gender identities, different faith or religious beliefs, etc.), and therefore communicate and interact with them as much congruently as possible and according to the resources available.

Learning outcomes on Physiotherapy

1. The participant knows how to observe and assess infant motor development according to neurodevelopmental principles, can identify delays in achieving motor milestones, taking into account diverse factors influencing development, and can decide on the need for further diagnostics and consultations.
2. The participant understands the importance of early childhood for the development of coordination skills and knows how to assess these skills in preschool children using simple tests, recognizing how motor deficits can affect the child's future health and functioning.
3. The participant understands key aspects of foot biomechanics, its role in the biomechanical chain of the lower limb, common foot abnormalities, their impact on gait, posture, and quality of life, and can evaluate foot conditions in relation to other body segments.
4. The participant can identify contraindications for further examination and treatment, perform and interpret functional tests and angle measurements, using appropriate diagnostic techniques.
5. The participant understands the diaphragm's role in the musculoskeletal system and its impact on surrounding tissues and organs, can perform palpation of anatomical structures to assess breathing patterns and identify dysfunctions, and is familiar with diaphragm relaxation techniques.
6. The participant has learned the location for palpating the transverse abdominal muscle contraction, is familiar with central stabilization diagnostic tests, including McGill's protocol, result interpretation, and training based on five key exercises, considering aspects of touch and correct movement task performance.
7. The participant can assess and treat postural abnormalities to maintain a healthy spine, performing visual evaluations, diagnostic tests (e.g., Adam's test with a scoliometer), and planning preventive and corrective exercises for youth to promote proper posture throughout life.
8. The participant understands diagnostic principles for radicular pain in pregnant women, safely performs low-impact exercises during the second trimester, and creates physiotherapy programs to improve flexibility, muscle strength, and physical activity levels in women experiencing back pain during pregnancy.
9. The participant knows the principles of assessing breathing patterns, posture, and movement using clinical reasoning and can perform and interpret results from psychomotor assessments and therapy.
10. The participant understands the methodology for dual-task gait assessment, can analyze gait parameters with an additional task, and interpret results.
11. The participant understands the StARRT (Strategic Assessment of Risk and Risk Tolerance) strategy, uses dynamic tests for return-to-sport decisions after ACL reconstruction, and assesses fear of movement and re-injury.
12. The participant knows how to assess the physical fitness of individuals with varying levels of intellectual disabilities using appropriate tests (e.g., Eurofit Special, balance, coordination, endurance, and fitness tests), considering their physical and cognitive abilities.
13. The participant knows the principles of physical and cognitive fitness testing in older adults (e.g., Time Up and Go Test, Mini-Mental Test, MoCA Test) and appropriate physiotherapy and therapeutic procedures (e.g., music therapy) to protect seniors' physical and mental health.
14. The participant knows how to perform brief physical fitness tests and sections of the Barthel Index and use the results for clinical reasoning.
15. The participant conducts balance tests focusing on safe execution, uses interviews and questionnaires to assess fall risk, and identifies areas for improvement.