

Orthotic Fitter Knowledge and Skills

- K1. Knowledge of musculoskeletal anatomy, including upper limb, lower limb, spinal
- K2. Knowledge of neuroanatomy (major peripheral nerves of the upper and lower extremity)
- K3. Knowledge of anatomical landmarks
- K4. Knowledge of kinesiology, including upper limb, lower limb, spinal (ROM, muscle actions)
- K5. Knowledge of normal human locomotion
- K6. Knowledge of normal and pathological (antalgic gait, gluteus medius) gait
- K7. Knowledge of tissue characteristics/management (stockings, ulcer, pressure sores)
- K8. Knowledge of volumetric control (edema, stockings, follow-up fittings)
- K9. Knowledge of planes of motion
- K10. Knowledge of biomechanics (actions of levers, application of force)
- K11. Knowledge of pathologies (e.g., neurologic, muscular, orthopedic)
- K12. Knowledge of medical terminology
- K13. Knowledge of referral documents
- K14. Knowledge of procedures to record data
- K15. Knowledge of policies and procedures regarding privileged information (HIPAA)
- K16. Knowledge of roles and responsibilities associated with other professions
- K17. Knowledge of reimbursement protocols (e.g., DMERC, HCFA)
- K18. Knowledge of material safety procedures and standards (e.g., OSHA, MSDS)
- K19. Knowledge of universal precautions, including sterile techniques and infection control
- K20. Knowledge of ethical standards regarding proper patient management
- K21. Knowledge of scope of practice related to orthotic credentials
- K22. Knowledge of when to refer the patient to other healthcare providers/caregivers
- K23. Knowledge of prefabricated orthotic design
- K24. Knowledge of prefabricated orthotic fitting criteria
- K25. Knowledge of trimlines
- K26. Knowledge of examination techniques, including gait observation, weight bearing status, skin/tissue evaluation, pain evaluation, and volumetric evaluation
- K27. Knowledge of measurement tools and techniques (tape measurers, ML gauges, Brannock device, goniometers)
- K28. Knowledge of orthotic forms (e.g., assessment, orthometry, measurement, evaluation, outcomes)
- K29. Knowledge of materials science as it relates to manufacturers' design and use of materials
- K30. Knowledge of product composition
- K31. Knowledge of alignment devices and techniques (bending irons, contour paraspinal bars, align CAM walker uprights, post-op knee orthosis)

- K32. Knowledge of hand and power tools
- K33. Knowledge of mechanics (e.g., levers and force systems)
- K34. Knowledge of care and maintenance of prefabricated orthoses
- K35. Knowledge of item warranty and warranty limitation
- K36. Knowledge of loss control (e.g., risk management, inventory control)
- K37. Knowledge of research methodology and literature
- K38. Knowledge of human development and aging, ranging from pediatric to geriatric, as they relate prefabricated orthotic treatment
- K39. Knowledge of available educational materials
- K40. Knowledge of federal and state rules, regulations, and guidelines (e.g., FDA, ADA)
- S1. Skill in interpreting referral documents (Rx and LMNs)
- S2. Skill in interviewing patients and referral sources
- S3. Skill in taking histories and performing physical examinations
- S4. Skill in gross surface anatomy (e.g., identification of anatomical landmarks)
- S5. Skill in patient examination techniques (e.g., measuring range of motion [ROM], measuring muscle function, positioning body segments)
- S6. Skill in interpretation of physical findings (e.g., recognizing skin pressures, dermatological conditions)
- S7. Skill in normal and pathological gait/motion analysis
- S8. Skill in orthotic gait/motion analysis as it relates to treatment goal
- S9. Skill in managing patients relative to their condition
- S10. Skill in measuring for prefabricated orthoses including upper limb, lower limb, spinal
- S11. Skill in using mechanical measuring devices
- S12. Skill in modifications and adjustments to prefabricated orthotic devices
- S13. Skill in prefabricated orthotic fitting
- S14. Skill in use of safety equipment
- S15. Skill in using hand and power tools
- S16. Skill in selection of/use of materials and components
- S17. Skill in use of alignment devices
- S18. Skill in cosmetic modification of device
- S19. Skill in evaluating fit and function of a prefabricated orthosis
- S20. Skill in maintaining and repairing components of prefabricated orthosis
- S21. Skill in restoring optimal fit and function of prefabricated orthoses
- S22. Skill in solving patient's problem related to ADLs (e.g., dressing, driving)
- S23. Skill in documentation