



Prosthetist Detailed Content Outline	Cognitive Level			Total
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I. Facilities Management	2	5	1	8
A. Determine elements of the fitting room (e.g., adjustable stool, exam/fitting table, mirror, hard back chair, and parallel bars, or other appropriate ambulating device)		X	X	
B. Determine required equipment, tools, and materials				
1. manufacturing/alteration equipment (e.g., heat gun, oven, bending irons, sewing machine, alignment device, anvil, grinding and carving tools, vise)			X	
2. measuring devices (e.g., tape measures, goniometer, calipers, VAPC caliper, ML gauge, measuring chart, plumb bob, yard/meter stick)			X	
3. casting equipment and materials (e.g., saws, spreaders, stockinette, indelible pencil, plaster of paris, fiberglass, surgical gloves, water, bowls)			X	
C. Comply with environmental safety regulations in all practice settings (e.g., pathogens, cross-infection, work place hazards)				
D. Assure quality care by development and maintenance of policies and procedures regarding patients, prescribers, personnel, maintenance of records, etc.				
E. Comply with HIPAA regulations			X	
II. Perform Professional Practice/Ethics	2	4	1	7
A. Maintain patient confidentiality			X	
B. Provide training, lectures and information to staff or other health care professionals on current orthotic/prosthetic information			X	
C. Establish a quality assurance system that evaluates patient care				
D. Participate in orthotic/prosthetic clinics			X	
E. Fulfill necessary continuing education requirements			X	
III. Patient Assessment/Evaluation	5	5	13	23
A. Establish relationship with patient				
1. Patient intake				
a. Record all personal and insurance information about patient			X	
b. Discuss financial matters for services/devices with patient			X	

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c. Determine patient's expectations				
d. Interview patient and obtain history			X	
e. Collect and evaluate patient records				
f. Identify the pathology of the disease to provide the proper orthosis or prosthesis			X	
g. Discuss any related medical treatment(s)				
B. Evaluate and assess patient to determine				
1. skin condition				
2. range of motion				
3. muscle strength				
4. manual dexterity				
5. coordination				
6. posture and gait				
7. proprioception				
8. sensation				
C. Assess Prescription				
1. Determine elements of a valid prescription				
a. Verify validity of prescriber			X	
b. Verify information contained on prescription			X	
2. Determine relation of prescription to presenting problem				
3. Discuss prescription with patient (i.e., explain the patient's role/responsibilities)			X	
4. Contact prescribing doctor and discuss/revise prescription				
IV. Communication/Patient Education	3	9	3	15
A. Explain purpose/objective of orthosis/prosthesis				
1. Inform patient and/or caregiver of the various procedures to be performed			X	
2. Explain advantages and disadvantages				
3. Determine patient's expectations				
4. Explain patient's role/responsibilities			X	
B. Provide initial instructions				
1. Instruct patient and/or caregiver in donning, doffing, care of orthosis/prosthesis			X	
2. Demonstrate proper application, alignment and removal			X	
3. Instruct patient and/or caregiver in fitting adjustments such as using prosthetic socks or tightening straps, etc.			X	

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4. Explain how to recognize potential problems (e.g., pressure points, skin breakdown, numbness, contractures)				
5. Explain care and cleaning procedures			X	
C. Evaluate psychological impact of devices on patient, family and others				
D. Establish procedures for patient follow-up				
1. Initiate and encourage on-going communication with patient and/or caregiver			X	
2. Develop and maintain patient's records			X	
3. Inform patient and/or caregiver of provisions for continued servicing of device (e.g., adjustments, consultation)			X	
4. Communicate with the patient and/or caregiver verbally and in writing			X	
E. Conduct inter-professional communications			X	
V. Orthosis/Prosthesis Application and Delivery	4	14	4	22
A. Finalize alignment and fit orthosis/prosthesis to patient				
1. Don orthosis/prosthesis to patient and finalize alignment, fit, and cosmetic appearance			X	
2. Demonstrate proper application, alignment and removal			X	
3. Demonstrate to patient and/or caregiver donning, doffing, fitting adjustments and care of orthosis/prosthesis			X	
4. Explain how to recognize potential problems (e.g., pressure points, skin breakdown, numbness, contractures)				
5. Have patient and/or caregiver demonstrate proper application and removal			X	
6. Have patient and/or caregiver sign receipts and acknowledgments			X	
B. Explain follow-up procedures			X	
C. Refer to physician for post-fitting follow-up			X	
VI. Patient Follow-up	3	9	3	15
A. Evaluate fit and function of orthosis/prosthesis				
B. Perform necessary adjustments			X	
C. Schedule follow-up visits			X	
VII. Patient Preparation/Evaluation	6	7	2	15
A. Evaluate condition of residual limb(s)				
1. Discuss anatomical powered systems			X	

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2. Discuss battery powered systems (e.g., computerized leg, myoelectric arm)			X	
3. Evaluate function and potential functional level				
4. Examine physiology (e.g., suture line, edema, contracture)				
B. Cast and measure patient				
1. Select technique(s)			X	
2. Identify anatomical landmarks		X	X	
3. Capture shape, volume and special features of the limb				
4. Record anatomical measurements for fitting and fabrication			X	
C. Identify Amputation Levels				
1. Lower Extremity				
a. partial foot		X	X	
b. Syme's		X	X	
c. transtibial		X	X	
d. knee disarticulation		X	X	
e. transfemoral		X	X	
f. hip disarticulation		X	X	
g. hemipelvectomy		X	X	
2. Upper Extremity				
a. partial hand		X	X	
b. wrist disarticulation		X	X	
c. transradial		X	X	
d. elbow disarticulation		X	X	
e. transhumeral		X	X	
f. shoulder disarticulation		X	X	
g. interscapulo-thoracic		X	X	
VIII. Design Selection	6	7	2	15
A. Select Socket Design - Lower Extremity				
1. Partial Foot				
2. Syme's				
3. Transtibial				
4. Knee disarticulation				
5. Transfemoral				
6. Hip disarticulation			X	
7. Hemipelvectomy			X	

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B. Select Socket Design - Upper Extremity				
1. Partial hand			X	
2. Wrist disarticulation			X	
3. Transradial				
4. Elbow disarticulation			X	
5. Transhumeral				
6. Shoulder disarticulation			X	
C. Select Suspension Design for Lower Extremity				
1. Partial Foot				
a. AFO-style			X	
b. toe-filler in shoe			X	
2. Syme's				
a. expandable wall			X	
b. window			X	
c. wedge			X	
3. Transtibial				
a. PTB/SC			X	
b. cuff strap			X	
c. suction			X	
d. suspension sleeve			X	
e. shuttle lock (e.g., 3S)			X	
f. thigh corset and joints			X	
g. removable medial wedge			X	
h. inverted Y and waist belt			X	
4. Knee Disarticulation				
a. condylar suspension			X	
b. medial window			X	
c. suction			X	
5. Transfemoral				
a. suction			X	
b. hip joint, pelvic band, and waist belt			X	
c. TES belt			X	
d. shuttle lock			X	
e. Silesian band			X	
6. Hip disarticulation				
a. supra pelvic suspension			X	

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7. Hemipelvectomy				
a. Supra pelvic suspension			X	
D. Select Suspension Design for Upper Extremity				
1. Partial hand				
a. glove			X	
2. Wrist Disarticulation				
a. figure 8			X	
b. styloid			X	
3. Transradial				
a. muenster			X	
b. figure 8			X	
c. suction			X	
d. shuttle lock			X	
4. Elbow disarticulation				
a. figure 8			X	
b. condylar			X	
5. Transhumeral				
a. figure 8			X	
b. shuttle lock			X	
c. suction			X	
d. shoulder saddle with chest strap			X	
6. Shoulder disarticulation-shoulder saddle with chest strap			X	
E. Select Design and Componentry for Lower Extremity				
1. Exoskeletal (e.g., ultra lite, standard weight)				
2. Endoskeletal (e.g., ultra lite, standard weight, high activity)				
3. Socket interfacing (e.g., silicone, multidurometer)				
4. Foot (e.g., SACH, energy storing/returning, multi axis)				
5. Knee (e.g., single axis, manual lock, polycentric/4-bar)				
F. Select Design and Componentry for Upper Extremity				
1. Terminal device (e.g., hook, hand)				
2. Wrist (e.g., quick disconnect, friction wrist)				
3. Elbow (e.g., single axis rigid, internal locking)				
4. Shoulder (e.g., flexion/abduction joint)				
5. Sock choice (e.g., wool, cotton, synthetic)				

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IX. Fabrication	3	9	3	15
A. Design and Fabricate Socket				
1. Prepare cast or image for modification			X	
2. Modify model:				
a. to relieve pressure in sensitive areas and apply pressure in pressure-tolerant areas				
b. to achieve total surface bearing				
3. Fabricate insert and distal pads				
a. form cone of desired foam material			X	
b. shape distal pad			X	
c. form pad and cone to modified model			X	
4. Fabricate socket				
a. check socket - prepare mold for definitive socket			X	
b. laminated socket			X	
c. vacuum form thermo-plastic socket			X	
B. Perform Bench Alignment of Lower Extremity Prosthesis			X	
C. Perform Bench Alignment of Upper Extremity Prosthesis			X	
D. Transfer Alignment from Fitted Prosthesis to Definitive Prosthesis			X	
X. Application and Evaluation	3	3	9	15
A. Perform Static and Dynamic Alignment of Lower Extremity Prosthesis				
1. Ensure proper socket fit (e.g., sock ply and sock impressions)				
2. Determine length				
3. Check knee stability				
4. Determine proper toe out				
5. Evaluate gait				
6. Adjust alignment to develop optimal gait				
7. Check for adequate suspension				
B. Perform Static and Dynamic Alignment of Upper Extremity Prosthesis				
1. Ensure socket fit (e.g., sock ply and sock impressions)				
2. Determine prosthesis length				
3. Apply and adjust harness/control system to optimize prosthetic function				
TOTALS	37	72	41	150