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SELF-ASSESSMENT GUIDE

Qualification	ASSISTIVE REHABILITATION TECHNOLOGY SERVICES (PROSTHETICS) NC II		
Units of Competency Covered	<ul style="list-style-type: none"> • Create a positive mold from a negative cast • Fabricate a transtibial/ankle disarticulation prosthesis • Fabricate a transfemoral/knee disarticulation prosthesis • Fabricate a transradial/wrist disarticulation prosthesis • Fabricate a transhumeral/elbow disarticulation/shoulder disarticulation prosthesis • Perform basic repair and / or replacement of the prosthetic devices 		
Instruction: Read each question and check the appropriate column to indicate your answer.			
Can I?	YES	NO	
CREATE A POSITIVE MOLD FROM A NEGATIVE CAST			
• Verify and record prescription (specifications of device) in accordance with documentation procedures *			
• Prepare tools and supplies/materials in the workshop			
• Check availability of tools and supplies/materials			
• Check safety and functionality of equipment and following industry procedures *			
• Prepare negative cast according to standard procedures *			
• Mix water and plaster of Paris (POP) powder according to prescribed ratio			
• Pour plaster mix to the negative cast while observing correct mandrel alignment *			
• Mount positive cast in bench vise *			
• Strip negative cast from positive mold, following standard procedures *			
• Re-establish positive cast marking and alignment, following standard procedures *			
• Clean work area and tools; store tools and positive cast on allotted shelves			
• Practice safety and health precautions in performing tasks in accordance with OSH standards *			
FABRICATE A TYPE OF PROSTHESIS DEVICE (Transtibial/ankle, transfemoral/knee, transradial/wrist, transhumeral/elbow and shoulder disarticulation prosthesis)			
A. Preparations for thermoforming			
• Verify and record prescriptions (specifications) on types of prosthesis, in accordance with documentation procedures *			
• Identify tools and supplies to be requested based on prescriptions/specifications on types of prosthesis for fabrication*			

• Check availability of tools and supplies/materials		
• Check safety and functionality of equipment and vacuum suction following the required pressure (pounds per square inch), following industry procedures *		
• Prepare thermoforming plastics and foam materials, according to prescribed dimensions of a prosthesis for fabrication		
• Prepare positive cast for thermoforming procedure by checking if the prosthesis is free of bumps and sharp edges, in accordance with standard procedure *		
• Secure position of positive cast in the vacuum pipe in accordance with thermoforming preparation procedure		
B. Thermoforming		
• Prepare oven and materials for cooking the thermoform soft liner of a prosthesis for fabrication		
• Cook soft liner materials of a prosthesis for fabrication, according to prescribed time and temperature and following standard procedure		
• Mold cooked liner a prosthesis for fabrication, to follow positive cast shape, through use of bandage or vacuum form		
• Describe securing attachment of socket adaptor of a prosthesis for fabrication, according to prescribed alignment		
• Thermoform hard plastic over lined positive of a prosthesis for fabrication, following standard procedure *		
C. Trimming and smoothing hard and plastic components		
• Operate cutting and grinding tool and equipment safely, following manufacturer's manual *		
• Cut hard and plastic components of a prosthesis, according to prescribed trim lines*		
• Remove the plaster of a prosthesis, following standard procedure		
• Grind and smoothen sockets of a prosthesis, according to prescribed trimlines *		
D. Assembling (including alignment and adjustments)		
• Determine correct height of the fabricated prosthesis and make necessary adjustments based on computed measurements and prescription *		
• Assemble components of the fabricated prosthesis, according to standard bench alignment procedure and safety requirements *		
• Demonstrate a step on fabrication procedure on cosmetic cover for one type of prosthesis, following standard procedure		
• Create Silesian belt of transfemoral/knee prosthesis, according to prescribed measurements *		
E. Post-fabrication Activities		
• Label fabricated prosthesis, following device safe procedure		
• Store fabricated prosthesis in safe and secure environment *		

PERFORM BASIC REPAIR AND/OR REPLACEMENT OF THE PROSTHETIC DEVICES		
• Verify prosthetic device's condition if it needs repair, replacement or for referral to prosthetist		
• Record prosthetic device for repair, replacement following established documentation procedure *		
• Identify tools, supplies and materials needed for repair or replacement based on latest prescription		
• Check availability of tools and supplies/materials		
• Prepare tools and materials in the workshop		
• Perform repairs or replacement of prosthetic device according to standard procedure and prescription *		
• Check safety and functionality of fixed prosthetic device following industry procedures *		
• Identify information that needs to be recorded for fixed prosthetic device following established documentation procedure		
PERFORM GOOD HOUSEKEEPING (CLEANS TOOLS AND WORK AREA) AND TURNS OFF MACHINES USED IN FABRICATION		
PRACTICE SAFETY AND HEALTH PRECAUTIONS IN PERFORMING ALL TASKS IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH (OSH) STANDARDS *		
I agree to undertake assessment with the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.		
Candidate's Name and Signature		Date

*NOTE: *Critical aspects of competency*