

ORTHOTICS TECHNICIAN

RAPIDS: 0911D

O*NET/SOC: 51-9082.00

REVISION DATE: 04/2024

TRADE DESCRIPTION: Construct, maintain, or repair medical supportive devices such as braces, orthotics and prosthetic devices, joints, arch supports, and other surgical and medical appliances.

TASK PERFORMANCE: Demonstrate knowledge and skills for qualifying as Journeyman. Applicable Job Qualification Requirements will be used as a guide in performing tasks and demonstrating knowledge in the following Skill Areas. Actual work time must be recorded in the Work Experience Log; each Skill Area must be completed.

TRADE ELIGIBILITY REQUIREMENTS:

Service Member assigned, trained and working full time in this trade occupation;

Have a minimum of 12 months remaining on active duty when beginning this trade apprenticeship;

Agree to abide by the National Standards of Apprenticeship.

Related Instruction:

Trade related On-The-Job-Training (OJT) or Any Trade related schools/courses totaling 144 or more hours.

Additional Requirement:

Must hold NEC L26A

Total Hours: 2000

Skill	Description	Hours
A	DRILL HOLES IN PARTS, EQUIPMENT, OR MATERIALS AND OPERATE WELDING EQUIPMENT -- Drill and tap holes for rivets, and glue, weld, bolt, or rivet parts together to form prosthetic or orthotic devices.	200
B	READ WORK ORDERS OR OTHER INSTRUCTIONS TO DETERMINE PRODUCT SPECIFICATIONS OR MATERIALS REQUIREMENTS -- Read prescriptions or specifications to determine the type of product or device to be fabricated and the materials and tools required.	100

C	CONSTRUCT CUSTOMIZED ASSISTIVE MEDICAL OR DENTAL DEVICES. -- Make orthotic or prosthetic devices, using materials such as thermoplastic and thermosetting materials, metal alloys and leather, and hand or power tools. -- Cover or pad metal or plastic structures or devices, using coverings such as rubber, leather, felt, plastic, or fiberglass	500
D	ADJUST FABRICS OR OTHER MATERIALS DURING GARMENT PRODUCTION -- Bend, form, and shape fabric or material to conform to prescribed contours of structural components. -- Construct or receive casts or impressions of patients' torsos or limbs for use as cutting and fabrication patterns	500
E	DRAW GUIDELINES OR MARKINGS ON MATERIALS OR WORKPIECES USING PATTERNS OR OTHER REFERENCES. -- Lay out and mark dimensions of parts, using templates and precision measuring instruments --Fit appliances onto patients, and make any necessary adjustments --Take patients' body or limb measurements for use in device construction.	100
F	REPAIR MEDICAL OR DENTAL ASSISTIVE DEVICES. -- Repair, modify, or maintain medical supportive devices, such as artificial limbs, braces, or surgical supports, according to specifications	200
G	INSPECT MEDICAL OR DENTAL ASSISTIVE DEVICES. -- Test medical supportive devices for proper alignment, movement, or biomechanical stability, using meters and alignment fixtures.	100
H	OPERATE GRINDING EQUIPMENT AND POLISH MATERIALS, WORKPIECES, OR FINISHED PRODUCTS. -- Polish artificial limbs, braces, or supports, using grinding and buffing wheels. -- Mix pigments to match patients' skin coloring, according to formulas, and apply mixtures to orthotic or prosthetic devices.	200
I	INSTRUCT PATIENTS IN THE USE OF ASSISTIVE EQUIPMENT. -- Instruct patients in use of prosthetic or orthotic devices.	100