

VTECS DIRECT e-Report for Biomedical Equipment Technology



*A Consortium for Innovative Career
and Workforce Development Resources*

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Duty/Task List

Occupation:117 Biomedical Equipment Technology

CIP 1 15.0401

	Title	-N- -- Codes --
DOT 1	BIOMEDICAL EQUIPMENT TECHNICIAN (profess. & kin.)	29 019.261-010
DOT 2		75 719.261-010

D	T	Duty / Task Description	%1	%2	%3	%4	%5
A		PERFORMING ADMINISTRATIVE AND CLERICAL FUNCTIONS	0	0	0	0	0
A	001	Plan biomedical equipment technician daily work assignments	31	52	0	0	0
A	002	Coordinate biomedical equipment procurement	28	51	0	0	0
A	003	Schedule corrective or preventive maintenance procedures with other departments	55	72	0	0	0
A	004	Develop biomedical equipment safety inspection programs	34	58	0	0	0
A	005	Develop operational procedures for maintenance/repair of biomedical equipment	28	62	0	0	0
A	006	Establish outside contractor service program	21	35	0	0	0
A	007	Plan biomedical equipment installation/ modification.	55	61	0	0	0
A	008	Schedule biomedical equipment technicians time off	16	32	0	0	0
A	009	Conduct biomedical equipment department staff meeting	7	28	0	0	0
A	010	Implement quality control programs/meetings	21	37	0	0	0
A	011	Supervise biomedical equipment technicians	14	32	0	0	0
A	012	Perform quality assurance evaluations/ services	21	32	0	0	0
A	013	Conduct biomedical equipment department staff orientation training	7	28	0	0	0
A	014	Conduct biomedical equipment department staff technical training sessions	16	29	0	0	0
A	015	Conduct non-biomedical department staff training sessions	17	32	0	0	0
A	016	Maintain biomedical equipment maintenance records	65	80	0	0	0
A	017	Complete biomedical equipment maintenance work orders	66	68	0	0	0
A	018	Calculate biomedical equipment repair and maintenance cost estimate	62	73	0	0	0
A	019	Maintain biomedical equipment work order request status log	24	39	0	0	0
A	020	Prepare biomedical equipment department budget	21	32	0	0	0
A	021	Order biomedical equipment parts and supplies	86	89	0	0	0
B		PERFORMING GENERAL MAINTENANCE TASK	0	0	0	0	0
B	001	Prepare preventive maintenance tags for biomedical equipment	95	88	0	0	0
B	002	Inventory biomedical equipment department tools, equipment and parts	93	88	0	0	0
B	003	Read equipment schematic	100	99	0	0	0
B	004	Maintain biomedical equipment shop tools and equipment	84	69	0	0	0
B	005	Replace integrated circuit chips	86	96	0	0	0
B	006	Gas weld hospital equipment	14	17	0	0	0
B	007	Install biomedical equipment	99	88	0	0	0
B	008	Perform electrical receptacle safety check	72	67	0	0	0
B	009	Perform electrical grounding environment safety test	76	65	0	0	0

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D	T	Duty / Task Description	%1	%2	%3	%4	%5
B	010	Perform patient connection electrical leakage safety test	14	17	0	0	0
B	011	Perform electrical equipment ground quality safety test	72	59	0	0	0
B	012	Perform electrical equipment chassis leakage to ground safety test	72	59	0	0	0
B	013	Replace batteries in biomedical equipment	100	97	0	0	0
B	014	Solder electrical connections	100	97	0	0	0
B	015	Troubleshoot biomedical equipment	100	99	0	0	0
B	016	Operate biomedical testing equipment	93	95	0	0	0
B	017	Dispose of contaminated materials	52	44	0	0	0
B	018	Don or doff protective equipment	83	69	0	0	0
B	019	Repair biomedical equipment	97	96	0	0	0
C		MAINTAINING GENERAL HOSPITAL EQUIPMENT	0	0	0	0	0
C	001	Calibrate electronic automatic blood pressure monitor, (electrosphygmomanometer)	76	84	0	0	0
C	002	Calibrate electronic thermometer	69	71	0	0	0
C	003	Calibrate hypo/hyperthermia unit	66	77	0	0	0
C	004	Calibrate hypodermic jet injection system	24	17	0	0	0
C	005	Calibrate infusion pump/controller	79	77	0	0	0
C	006	Calibrate intermittent suction unit	76	72	0	0	0
C	007	Calibrate oxygen regulator/analyzer	41	33	0	0	0
C	008	Calibrate sphygmomanometer	76	56	0	0	0
C	009	Calibrate pressure transducer	55	55	0	0	0
C	010	Calibrate transportable incubator	69	67	0	0	0
C	011	Calibrate ultrasonic blood flow detector	41	44	0	0	0
C	012	Calibrate vital sign monitor (physiological monitor)	79	88	0	0	0
C	013	Perform preventive maintenance on electronic automatic blood pressure monitor, (electrosphy	0	89	0	0	0
C	014	Perform preventive maintenance on cast cutter	69	61	0	0	0
C	015	Perform preventive maintenance on CPR mannequin.	38	25	0	0	0
C	016	Perform preventive maintenance on electronic thermometer	72	64	0	0	0
C	017	Perform preventive maintenance on enteric nutrition pump	69	56	0	0	0
C	018	Perform preventive maintenance on examination table	55	32	0	0	0
C	019	Perform preventive maintenance on heat sealer	52	31	0	0	0
C	020	Perform preventive maintenance on hypo/ hyperthermia unit	69	76	0	0	0
C	021	Perform preventive maintenance on hypodermic jet injection system	28	21	0	0	0
C	022	Perform preventive maintenance on infusion pump/controller	90	81	0	0	0

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DOT 1	BIOMEDICAL EQUIPMENT TECHNICIAN (profess. & kin.)	29 019.261-010
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D	T	Duty / Task Description	%1	%2	%3	%4	%5
C	023	Perform preventive maintenance on intermittent suction unit	79	68	0	0	0
C	024	Perform preventive maintenance on oxygen regulator/analyser	48	28	0	0	0
C	025	Perform preventive maintenance on manual sphygmomanometer	69	45	0	0	0
C	026	Perform preventive maintenance on transducer	45	57	0	0	0
C	027	Perform preventive maintenance on transportable incubator	79	68	0	0	0
C	028	Perform preventive maintenance on ultrasonic blood flow detector	52	56	0	0	0
C	029	Perform preventive maintenance on ultrasonic cleaning system other than dental	31	35	0	0	0
C	030	Perform preventive maintenance on vacuum- operated suction unit	76	53	0	0	0
C	031	Perform preventive maintenance on vital sign monitor	86	88	0	0	0
D		MAINTAINING LABORATORY EQUIPMENT	0	0	0	0	0
D	001	Adjust tissue processor	7	27	0	0	0
D	002	Calibrate bacteriological incubator, (laboratory)	28	23	0	0	0
D	003	Calibrate blood gas analyzer, (respiratory gasometer)	21	33	0	0	0
D	004	Calibrate cell washer (autotransfusion unit)	21	29	0	0	0
D	005	Calibrate coagulation timer/analyzer	17	29	0	0	0
D	006	Calibrate flame photometer	3	25	0	0	0
D	007	Calibrate glucose analyzer	17	23	0	0	0
D	008	Calibrate hemoglobinometer	7	20	0	0	0
D	009	Calibrate fluorometer	10	19	0	0	0
D	010	Calibrate laboratory electric heating device	10	19	0	0	0
D	011	Calibrate osmometer	3	23	0	0	0
D	012	Calibrate pH meter/measuring system	10	35	0	0	0
D	013	Calibrate refrigerated blood bank	28	25	0	0	0
D	014	Calibrate refrigerated centrifuge	28	37	0	0	0
D	015	Calibrate laboratory water baths	17	27	0	0	0
D	016	Calibrate spectrophotometer.	17	27	0	0	0
D	017	Perform preventive maintenance on automated chemistry analyzer.	14	20	0	0	0
D	018	Perform preventive maintenance on bacteriological incubator (laboratory).	17	23	0	0	0
D	019	Perform preventive maintenance on blood gas analyzer (respiratory gasometer).	28	35	0	0	0
D	020	Perform preventive maintenance on cell washer (autotransfusion unit).	24	36	0	0	0
D	021	Perform preventive maintenance on centrifuge, other than	55	51	0	0	0

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DOT 2		75	719.261-010

D	T	Duty / Task Description	%1	%2	%3	%4	%5
		refrigerated.					
D	022	Perform preventive maintenance on coagulation timer/analyzer.	17	31	0	0	0
D	023	Perform preventive maintenance on cryostat, (cryosurgical unit).	14	32	0	0	0
D	024	Perform preventive maintenance on densitometer, other than contrast.	10	20	0	0	0
D	025	Perform preventive maintenance on electrophoresis unit.	7	19	0	0	0
D	026	Perform preventive maintenance on flame photometer.	3	27	0	0	0
D	027	Perform preventive maintenance on glucose analyzer.	24	23	0	0	0
D	028	Perform preventive maintenance on laboratory microscope.	24	39	0	0	0
D	029	Perform preventive maintenance on laboratory or pharmacy refrigerator	14	17	0	0	0
D	030	Perform preventive maintenance on laboratory electric heating devices.	21	21	0	0	0
D	031	Perform preventive maintenance on osmometer	10	25	0	0	0
D	032	Perform preventive maintenance on pH meter/ measuring system	14	27	0	0	0
D	033	Perform preventive maintenance on refrigerated blood bank	21	29	0	0	0
D	034	Perform preventive maintenance on refrigerated centrifuge	31	36	0	0	0
D	035	Perform preventive maintenance on laboratory water bath.	10	25	0	0	0
D	036	Perform preventive maintenance on shaking device	31	44	0	0	0
D	037	Perform preventive maintenance on slide stainer	31	41	0	0	0
D	038	Perform preventive maintenance on spectrophotometer	10	27	0	0	0
D	039	Perform preventive maintenance on tissue processor	14	27	0	0	0
D	040	Perform preventive maintenance on titration meter	14	17	0	0	0
E		MAINTAINING PHYSICAL THERAPY EQUIPMENT	0	0	0	0	0
E	001	Calibrate diathermy unit	34	51	0	0	0
E	002	Calibrate hydrocollator	38	51	0	0	0
E	003	Calibrate hydrotherapy system	38	39	0	0	0
E	004	Calibrate paraffin bath	55	49	0	0	0
E	005	Calibrate pneumatic splint	17	27	0	0	0
E	006	Calibrate traction equipment	48	56	0	0	0
E	007	Calibrate ultrasonic therapy system	48	63	0	0	0
E	008	Perform preventive maintenance on biofeedback instrument	28	37	0	0	0
E	009	Perform preventive maintenance on diathermy unit	48	56	0	0	0
E	010	Perform preventive maintenance on exercise bicycle	45	35	0	0	0
E	011	Perform preventive maintenance on exercise table	38	29	0	0	0
E	012	Perform preventive maintenance on hydrocollator	55	53	0	0	0

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DOT 2			75	719.261-010			

D	T	Duty / Task Description	%1	%2	%3	%4	%5
E	013	Perform preventive maintenance on hydrotherapy system	52	55	0	0	0
E	014	Perform preventive maintenance on heat lamp	55	47	0	0	0
E	015	Perform preventive maintenance on pain suppressor (T.E.N.S. unit).	24	27	0	0	0
E	016	Perform preventive maintenance on paraffin bath	55	52	0	0	0
E	017	Perform preventive maintenance on pneumatic splint	28	24	0	0	0
E	018	Perform preventive maintenance on traction equipment	45	59	0	0	0
E	019	Perform preventive maintenance on ultrasonic therapy system	34	35	0	0	0
F		MAINTAINING OBSTETRIC AND NURSERY EQUIPMENT	0	0	0	0	0
F	001	Calibrate bilirubinometer	31	27	0	0	0
F	002	Calibrate fetal heart monitor	76	61	0	0	0
F	003	Calibrate infant incubator	76	61	0	0	0
F	004	Calibrate infant warmer	76	67	0	0	0
F	005	Calibrate pediatric scale	66	49	0	0	0
F	006	Calibrate pediatric ventilator	28	31	0	0	0
F	007	Calibrate transcutaneous blood gas monitor	28	33	0	0	0
F	008	Calibrate ultrasonic fetal doppler	66	39	0	0	0
F	009	Calibrate uterine aspirator	28	24	0	0	0
F	010	Perform preventive maintenance on bilirubinometer	45	35	0	0	0
F	011	Perform preventive maintenance on fetal heart monitor	76	64	0	0	0
F	012	Perform preventive maintenance on infant incubator	83	63	0	0	0
F	013	Perform preventive maintenance on infant warmer	72	67	0	0	0
F	014	Perform preventive maintenance on obstetric irrigator	17	19	0	0	0
F	015	Perform preventive maintenance on pediatric scale	76	45	0	0	0
F	016	Perform preventive maintenance on pediatric ventilator	28	28	0	0	0
F	017	Perform preventive maintenance on transcutaneous blood gas monitor	28	37	0	0	0
F	018	Perform preventive maintenance on ultrasonic fetal doppler	69	55	0	0	0
F	019	Perform preventive maintenance on uterine aspirator	28	20	0	0	0
G		MAINTAINING SURGICAL EQUIPMENT	0	0	0	0	0
G	001	Adjust surgical microscope	52	57	0	0	0
G	002	Calibrate intraaortic balloon pump.	24	33	0	0	0
G	003	Calibrate blood warmer	66	73	0	0	0
G	004	Calibrate electrosurgical system/unit	76	75	0	0	0
G	005	Calibrate pneumatic tourniquet	52	72	0	0	0
G	006	Perform preventive maintenance on intraaortic balloon pump.	34	41	0	0	0
G	007	Perform preventive maintenance on blood warmer	79	72	0	0	0

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D	T	Duty / Task Description	%1	%2	%3	%4	%5
G	008	Perform preventive maintenance on surgical air drill	59	49	0	0	0
G	009	Perform preventive maintenance on dermatome	31	47	0	0	0
G	010	Perform preventive maintenance on electrosurgical system/unit	83	80	0	0	0
G	011	Perform preventive maintenance on fiber optic system, other than dental	66	71	0	0	0
G	012	Perform preventive maintenance on resuscitator.	45	52	0	0	0
G	013	Perform preventive maintenance on surgical laser system	24	28	0	0	0
G	014	Perform preventive maintenance on pneumatic tourniquet	66	67	0	0	0
G	015	Perform preventive maintenance on surgical lamp	52	47	0	0	0
G	016	Perform preventive maintenance on surgical microscope	55	59	0	0	0
H		MAINTAINING EYE, EAR, NOSE AND THROAT (EENT) EQUIPMENT	0	0	0	0	0
H	001	Calibrate audiometer	21	24	0	0	0
H	002	Perform preventive maintenance on audiometer	24	33	0	0	0
H	003	Perform preventive maintenance on colorimeter	0	0	0	0	0
H	004	Perform preventive maintenance on ophthalmoscope	62	47	0	0	0
H	005	Perform preventive maintenance on otoscope	76	57	0	0	0
I		MAINTAINING WARD EQUIPMENT	0	0	0	0	0
I	001	Calibrate circulating fluid pump (T-pump and pad).	66	53	0	0	0
I	002	Perform preventive maintenance on electric bed	48	36	0	0	0
I	003	Perform preventive maintenance on humidifier	48	32	0	0	0
I	004	Perform preventive maintenance on T-pump and pad	72	53	0	0	0
I	005	Perform preventive maintenance on vaporizer	52	32	0	0	0
J		MAINTAINING INHALATION THERAPY EQUIPMENT	0	0	0	0	0
J	001	Calibrate apnea monitor/alarm.	55	57	0	0	0
J	002	Calibrate respiratory therapy equipment.	21	31	0	0	0
J	003	Calibrate spirometer	24	39	0	0	0
J	004	Calibrate ventilator, other than pediatric	41	37	0	0	0
J	005	Perform preventive maintenance on apnea monitor	59	65	0	0	0
J	006	Perform preventive maintenance on flowmeter (Plethysmograph).	31	29	0	0	0
J	007	Perform preventive maintenance on respiratory therapy equipment	38	36	0	0	0
J	008	Perform preventive maintenance on oxygen tent assembly	34	43	0	0	0
J	009	Perform preventive maintenance on spirometer	34	39	0	0	0
J	010	Perform preventive maintenance on ultrasonic nebulizer	59	68	0	0	0
J	011	Perform preventive maintenance on ventilator, other than pediatric	59	41	0	0	0
K		MAINTAINING CARDIAC CARE UNIT/ INTENSIVE CARE UNIT (CCC/ICU)	0	0	0	0	0

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D	T	Duty / Task Description	%1	%2	%3	%4	%5
EQUIPMENT							
K	001	Calibrate automated central station	41	69	0	0	0
K	002	Calibrate electronic blood pressure monitor, other than automatic.	41	69	0	0	0
K	003	Calibrate cardiac output computer	28	63	0	0	0
K	004	Calibrate defibrillator/monitor	69	79	0	0	0
K	005	Calibrate chart recorder	21	36	0	0	0
K	006	Calibrate echocardiograph	41	48	0	0	0
K	007	Calibrate electrocardiograph	55	72	0	0	0
K	008	Calibrate electrocardiogram monitor	52	60	0	0	0
K	009	Calibrate electroencephalograph	38	53	0	0	0
K	010	Calibrate electromyograph	28	52	0	0	0
K	011	Calibrate plethysmograph	21	40	0	0	0
K	012	Calibrate pulmonary resuscitator	17	45	0	0	0
K	013	Calibrate treadmill	76	64	0	0	0
K	014	Perform preventive maintenance on automated central station	72	81	0	0	0
K	015	Perform preventive maintenance on electronic blood pressure monitors, other than automatic	66	68	0	0	0
K	016	Perform preventive maintenance on cardiac output computer	55	67	0	0	0
K	017	Perform preventive maintenance on defibrillator	93	83	0	0	0
K	018	Perform preventive maintenance on chart recorder	41	51	0	0	0
K	019	Perform preventive maintenance on electrocardiogram monitor	79	81	0	0	0
K	020	Perform preventive maintenance on echocardiograph	48	47	0	0	0
K	021	Perform preventive maintenance on electroencephalograph system.	55	63	0	0	0
K	022	Perform preventive maintenance on electrocardiograph system.	66	76	0	0	0
K	023	Perform preventive maintenance on electromyograph system.	34	48	0	0	0
K	024	Perform preventive maintenance on external pacemaker	38	56	0	0	0
K	025	Perform preventive maintenance on plethysmograph	21	33	0	0	0
K	026	Perform preventive maintenance on pulmonary resuscitator manual	28	48	0	0	0
K	027	Perform preventive maintenance on telemetry central system	76	77	0	0	0
K	028	Perform preventive maintenance on treadmill	69	61	0	0	0

Equipment

Occupation 117 Biomedical Equipment Technology

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DOT 1	BIOMEDICAL EQUIPMENT TECHNICIAN (profess. & kin.)	29	019.261-010
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Equipment Description	%1	%2	%3	%4	%5
Workbench	97	93	0	0	0
Service Manuals	97	93	0	0	0
Multimeter, Digital	97	93	0	0	0
Solder Sucker	97	92	0	0	0
Soldering Iron/Gun	97	92	0	0	0
Solder	97	92	0	0	0
Sockets/Ratchets, Various	97	92	0	0	0
Screwdrivers, Phillips	97	92	0	0	0
Files, Various	97	92	0	0	0
Alcohol	97	92	0	0	0
Meter, Volt	97	91	0	0	0
Fuses	97	91	0	0	0
Drill Bits	97	91	0	0	0
Drill	97	91	0	0	0
Pliers, Needlenose	97	89	0	0	0
Allen Keys	97	89	0	0	0
Storage Cabinet	97	88	0	0	0
Pliers, Diagonal	97	88	0	0	0
Electrical Outlet Strips	97	85	0	0	0
Charger, Battery	97	84	0	0	0
Wire Leads, Clip	97	83	0	0	0
Screws, Assorted	97	83	0	0	0
Fasteners, Various	97	83	0	0	0
Flashlight	97	79	0	0	0
Screwdrivers, Standard	93	92	0	0	0
Nut Driver Set	93	92	0	0	0
Multimeter, Various	93	92	0	0	0
Wire Stripers	93	91	0	0	0
Wire Connectors	93	91	0	0	0
Calculator	93	91	0	0	0
Tape Measure	93	89	0	0	0
Wrench, Adjustable (Cresent)	93	87	0	0	0

Equipment

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DOT 1	BIOMEDICAL EQUIPMENT TECHNICIAN (profess. & kin.)	29	019.261-010
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Equipment Description	%1	%2	%3	%4	%5
Wires, Various Gauges (sizes)	93	87	0	0	0
Tester, Battery	93	87	0	0	0
Degreasing/Cleaning Solution	93	87	0	0	0
Pliers, Slip-Joint	93	85	0	0	0
Carts	93	85	0	0	0
Vise	93	83	0	0	0
Hammers, Various	93	77	0	0	0
Generator, Time Mark	93	28	0	0	0
Telephone	90	92	0	0	0
Tape Dispenser	90	89	0	0	0
Scissors	90	89	0	0	0
Analyzer, Electrosurgical	90	88	0	0	0
Wire/Cable, Various Gauges	90	87	0	0	0
Stool	90	87	0	0	0
Punch	90	84	0	0	0
Pliers, Electrician	90	81	0	0	0
Screwdrivers, Precision	90	80	0	0	0
Safety Glasses	90	72	0	0	0
Screwdrivers, Graber Clip	90	67	0	0	0
Oscilloscopes	86	92	0	0	0
Analyzer, Safety	86	91	0	0	0
Analyzer, Defibrillator	86	89	0	0	0
Stapler	86	88	0	0	0
Power Strips	86	88	0	0	0
Power Supplies	86	87	0	0	0
Stop Watch	86	84	0	0	0
Air Hose.	86	83	0	0	0
Pager	86	80	0	0	0
Pliers, Locking	86	79	0	0	0
Pliers, Bent Nose	86	79	0	0	0
Millimeter, Volt/Ohm	86	79	0	0	0
Hacksaw	86	79	0	0	0

Equipment

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Equipment Description	%1	%2	%3	%4	%5
Knife, Razor	86	77	0	0	0
Pliers, Surgical Clip	86	76	0	0	0
Knife, Pocket	86	76	0	0	0
Parts Tray	86	72	0	0	0
Meter Ohm	86	72	0	0	0
Scale, Measuring	86	65	0	0	0
Integrated Circuits	83	87	0	0	0
Book Case	83	87	0	0	0
Pressurized Air	83	85	0	0	0
Adjustable Lamps.	83	79	0	0	0
Tester, Conductivity	83	76	0	0	0
Hammer, Ball Peen	83	76	0	0	0
Broom	83	73	0	0	0
Analyzer, Capacitor - Inductor	79	79	0	0	0
Decade Resistor Boxes	79	76	0	0	0
Grinder	79	64	0	0	0
Gauges, Various	76	89	0	0	0
Meter, Vacuum	76	77	0	0	0
Pliers, Various	76	71	0	0	0
Pliers, Lineman	76	67	0	0	0
Distilled Water	72	91	0	0	0
High Voltage Probes	72	87	0	0	0
Analyzer, Electrocardiogram (ECG)	72	84	0	0	0
Integrated Circuit Remover	72	79	0	0	0
Computer System	72	76	0	0	0
Multimeter, RMS	72	73	0	0	0
Screwdrivers, Torx	72	68	0	0	0
Weights, Various	72	65	0	0	0
Mallets, Rubber	72	60	0	0	0
Syringe	72	59	0	0	0
Chisel	72	55	0	0	0
Logic Clips and Probes	69	85	0	0	0

Equipment

Occupation 117 Biomedical Equipment Technology

CIP 1 15.0401

	Title	-N-	-- Codes --
DOT 1	BIOMEDICAL EQUIPMENT TECHNICIAN (profess. & kin.)	29	019.261-010
DOT 2		75	719.261-010

Equipment Description	%1	%2	%3	%4	%5
Tachometers	69	76	0	0	0
Hand Saws	69	61	0	0	0
Generator, Function	66	89	0	0	0
Easy out	66	67	0	0	0
Tester, Circuit	66	65	0	0	0
Generator, Signal	62	91	0	0	0
Video Head Cleaner	62	57	0	0	0
Drill Press	62	57	0	0	0
Physiological Simulators	59	83	0	0	0
Isolated Transformers	59	83	0	0	0
Monitor, Temperature	59	76	0	0	0
Dental Mirror	59	76	0	0	0
Surgical Clips	59	59	0	0	0
Analyzer, Infusion Pump	59	37	0	0	0
Meter, Gas Flow and Pressure	55	71	0	0	0
Wattmeter, Ultrasound	55	55	0	0	0
Monitor, Line Regulation	55	51	0	0	0
Well, Thermometer	52	52	0	0	0
Torque Wrench Set	52	49	0	0	0
Mallets, Various	52	48	0	0	0
Chamois Swabs	52	43	0	0	0
Lighted Magnifying Pannels	52	31	0	0	0
Logic Troubleshooting kits	48	64	0	0	0
Tester, Circuit Board	48	59	0	0	0
Workbench, Portable	48	35	0	0	0
Generator, Ramp	41	40	0	0	0
Differential Amplifiers	38	51	0	0	0
Analyzer, Gas Concentration	38	33	0	0	0
Analyzer, Television (TV)	34	36	0	0	0
Reader, Microfiche	34	35	0	0	0
High Voltage Bleeders	34	33	0	0	0
Photometers	28	47	0	0	0

Equipment

Occupation 117 Biomedical Equipment Technology

CIP 1 15.0401

	Title	-N-	-- Codes --
DOT 1	BIOMEDICAL EQUIPMENT TECHNICIAN (profess. & kin.)	29	019.261-010
DOT 2		75	719.261-010

Equipment Description	%1	%2	%3	%4	%5
Tester, Octopuss (Volume/Pressure)	28	24	0	0	0
Wattmeter, Ultrasonic	17	51	0	0	0
Tester, Cathode Ray Tube (CRT)	17	37	0	0	0
Voltage Calibrators	16	44	0	0	0
Dynalyzers	14	20	0	0	0
Lag Thermometers	13	21	0	0	0
Universal Timer Controls	12	24	0	0	0
Meter, Radiation Survey	10	19	0	0	0
X-Ray Pulse Counter	10	12	0	0	0
Wattmeter, Transistor	8	28	0	0	0
Wrenches, Various	1	1	0	0	0
Vacuum Cleaner, Portable	1	1	0	0	0
Typewriter, Electric	1	1	0	0	0
Torch, Propane	1	1	0	0	0
Torch, Gas (oxy-Acet.)	1	1	0	0	0
Tester, Twin Axil	1	1	0	0	0
Telephone, Cordless	1	1	0	0	0
Tap and Die Set	1	1	0	0	0
Tape, Various Adhesive	1	1	0	0	0
Strain Relief Tool	1	1	0	0	0
Stimulator, Electrocardiogram (ECG)	1	1	0	0	0
Stethoscope	1	1	0	0	0
Software, Diagnostic	1	1	0	0	0
Sealant, RTV	1	1	0	0	0
Screwdriver, Cordless	1	1	0	0	0
Scalpels	1	1	0	0	0
Radio, Two-Way	1	1	0	0	0
Puller, Wheel Bearing	1	1	0	0	0
Pin Extractors	1	1	0	0	0
Pillow Speaker Test Box	1	1	0	0	0
Periphials Devices, Computer	1	1	0	0	0
Pencil Sharpener	1	1	0	0	0

Equipment

Occupation 117 Biomedical Equipment Technology

CIP 1 15.0401

	Title	-N-	-- Codes --
DOT 1	BIOMEDICAL EQUIPMENT TECHNICIAN (profess. & kin.)	29	019.261-010
DOT 2		75	719.261-010

Equipment Description	%1	%2	%3	%4	%5
Pen/Pencil	1	1	0	0	0
Monitor, Vectorscope/Wave	1	1	0	0	0
Monitor, Power Line	1	1	0	0	0
Monitor, Communication	1	1	0	0	0
Microwave	1	1	0	0	0
Micrometer	1	1	0	0	0
Meter, RF (Signal Strength)	1	1	0	0	0
Meter, Field Strength	1	1	0	0	0
Lock Tight	1	1	0	0	0
Lamp Removers	1	1	0	0	0
Ladders, Various	1	1	0	0	0
Labels, Safety	1	1	0	0	0
Labels, Identification	1	1	0	0	0
Label Maker	1	1	0	0	0
Gun, Pop Rivet	1	1	0	0	0
Gun, Heat	1	1	0	0	0
Gun, Caulk	1	1	0	0	0
Goggles, Safety	1	1	0	0	0
Goggles, Lazer	1	1	0	0	0
Generator, Dual/Single Tone	1	1	0	0	0
Gauge Gram (Stylus Tension)	1	1	0	0	0
Freez-It Spray	1	1	0	0	0
Fuse Pullers	1	1	0	0	0
Engraver/Etcher, Electric	1	1	0	0	0
Driver, Impact	1	1	0	0	0
Crimp Tool	1	1	0	0	0
Counter, Frequency	1	1	0	0	0
Chemical Control Materials	1	1	0	0	0
Chalk Board	1	1	0	0	0
Calibration Gases	1	1	0	0	0
Cable, Various	1	1	0	0	0
Buttset, Telephone	1	1	0	0	0

Equipment

Occupation 117 Biomedical Equipment Technology

CIP 1 15.0401

	Title	-N-	-- Codes --
DOT 1	BIOMEDICAL EQUIPMENT TECHNICIAN (profess. & kin.)	29	019.261-010
DOT 2		75	719.261-010

Equipment Description	%1	%2	%3	%4	%5
Brush, Tooth	1	1	0	0	0
Brush, Brass	1	1	0	0	0
Break-Free Spray	1	1	0	0	0
Analyzer, Spectrum	1	1	0	0	0
Analyzer, Logic	1	1	0	0	0
Analyzer, Conductive Floor	1	1	0	0	0
Alligator Third Hand	1	1	0	0	0
Adhesives, Various.	1	1	0	0	0

E L E M E N T S L I S T

Occupation: 117 Biomedical Equipment Technology
Duty A PERFORMING ADMINISTRATIVE AND CLERICAL FUNCTIONS
Task 001 Plan biomedical equipment technician daily work assignments

Performance Objective

CONDITIONS FOR PERFORMANCE OF TASK

Department work load
Daily assignment sheet
Department work schedule

PERFORMANCE

Plan biomedical equipment technician's daily work assignments.

STANDARD

Daily assignment sheets must be completed and provided to workers prior to the start of the shift. Assignment sheets must include BMET's name and identification number, date, hours on duty, and scheduled work to be performed.

SOURCE

Writing team of incumbent workers.

Performance Steps

1. Locate department work load chart and daily assignment sheets.
2. Identify biomedical equipment technician's work schedule and compare with work load schedule.
3. Complete daily assignment sheet.
4. Provide personnel with their scheduled work load for the day.
5. Advise personnel of possible problems associated with tasks to be performed.

Enabling Competencies

1. Review established departmental guidelines for assigning work to biomedical equipment technicians.
2. Compile biomedical equipment department work load and technician

E L E M E N T S L I S T

Occupation: 117 Biomedical Equipment Technology
Duty A PERFORMING ADMINISTRATIVE AND CLERICAL FUNCTIONS
Task 001 Plan biomedical equipment technician daily work assignments

work schedule information.

3. Complete biomedical equipment technician's daily work assignment sheets.
4. Discuss possible biomedical equipment work related problems.

Related Academic Skills

LA038 Collects/organizes work assignment information on daily assignment forms.
LA039 Collects/organizes work assignment/work load information into proper classifications.
LA058 Composes/edits daily work assignment forms.
LA147 Comprehends sequence for planning biomedical equipment technician's work assignments.
LA182 Evaluates work assignment information for appropriateness.
LA189 Evaluates relevant/irrelevant work assignment information.
LA210 Identifies work problem outcomes/solutions.
LA218 Identifies daily assignment sheet information context.
LA267 Presents information on possible work related problems to technicians.
SC046 Applies/uses data gathering methods for completing assignment sheets.

Activities

1. Present a lecture on types of biomedical equipment work assignments and the expected time period for work completion. (* 1, 2 & 3)
2. Conduct a class discussion on how to match the best person for the job with the assigned work load. (* 1, 2 & 3)
3. Explain to students how to identify work priorities using the department work load sheets. (* 2 & 3)
4. Emphasize the importance of matching the task with a qualified worker on duty and equipment available. (* 1, 2 & 3)
5. Discuss the procedure for completing the work assignment sheet. (* 1, 2 & 3)
6. Demonstrate procedures for completing the work assignment sheet. (* 1, 2 & 3)
7. Explain and demonstrate the procedure for providing the co-worker with pertinent work assignment information. (* 1, 2 & 3)
8. Assign student a biomedical equipment work load sheet, profiles of workers on duty, a list of available equipment, and blank assignment sheets. Instruct the student to complete the work

E L E M E N T S L I S T

Occupation: 117 Biomedical Equipment Technology
Duty A PERFORMING ADMINISTRATIVE AND CLERICAL FUNCTIONS
Task 001 Plan biomedical equipment technician daily work assignments

assignment sheets and assign work to personnel. (* 4)

9. Evaluate the students as they complete the work assignment sheets and assign work to department personnel. (* 5)

Resources

1. Biomedical equipment department policy/procedure manual.
2. Clinical Engineering Section. (1988). Training manual for biomedical equipment technicians, Part 1. Chicago, IL: American Society for Hospital Engineering, AHA.
3. Simmons, D. & Wear, J. (1988). Clinical engineering manual (3rd Ed.). North Little Rock, AR: Scientific Enterprises, Inc.
4. Example of a daily work assignment sheet.
5. Performance checklist - Planning biomedical equipment technician daily work assignments.

E L E M E N T S L I S T

Occupation: 117 Biomedical Equipment Technology
Duty A PERFORMING ADMINISTRATIVE AND CLERICAL FUNCTIONS
Task 002 Coordinate biomedical equipment procurement

Performance Objective

CONDITIONS FOR PERFORMANCE OF TASK

Purchasing requisitions
Equipment procurement request
Manufacturer's brochures/catalogs
Biomedical department policy/procedure manual

PERFORMANCE

Coordinate biomedical equipment procurement.

STANDARD

Procured biomedical equipment must optimize department needs and requirements against available equipment functions.

SOURCE

Writing team of incumbent workers.

Performance Steps

1. Review biomedical equipment department guidelines for equipment procurement.
2. Determine application/planned use of the equipment and its feasibility from equipment procurement request.
3. Identify sources for the required equipment.
4. Verify equipment functions and price.
5. Review equipment service/warranties and "track" record.
6. Arrange meeting or equipment demonstration with equipment manufacturer's representative.
7. Arrange a meeting with the requesting department head/staff to review equipment compliance.
8. Complete necessary purchase requisitions for procurement of biomedical equipment.

Enabling Competencies

1. Read biomedical equipment department policy/procedure manual.
2. Determine application/use categories for equipment to be procured.
3. Review equipment catalogs and brochures for equipment information.
4. Identify equipment specifications and requirements.
5. Conduct equipment meetings and demonstrations.
6. Complete equipment procurement paperwork.

Related Academic Skills

- LA046 Collects/organizes biomedical equipment procurement information from department's policy/procedure manual.

E L E M E N T S L I S T

Occupation: 117 Biomedical Equipment Technology
 Duty A PERFORMING ADMINISTRATIVE AND CLERICAL FUNCTIONS
 Task 002 Coordinate biomedical equipment procurement

LA048 Composes equipment meeting and demonstration agenda.
 LA058 Composes/edits equipment purchasing forms/documents.
 LA089 Composes evaluation reports critiquing equipment specifications and requirements.
 LA137 Comprehends comparisons between different equipment information.
 LA147 Comprehends biomedical equipment procurement step sequence.
 LA181 Evaluates equipment specifications and requirements for adequacy/sufficiency.
 LA189 Evaluates written equipment information as relevant/irrelevant.
 LA225 Identifies the main application/use categories for equipment procurement.
 LA267 Presents informal speech on equipment information collected.
 SC046 Applies/uses data collecting methods to determine application/use categories for equipment procurement.

Activities

1. Present a lecture on typical biomedical department procurement procedures. (* 1, 2 & 3)
2. Explain how to assemble catalogs and other sources for biomedical equipment. (* 2 & 3)
3. Conduct a class discussion on factors to consider when selecting biomedical equipment. (* 2, 3 & 6)
4. Discuss the procedure for matching equipment specifications and requirements with equipment brochures and catalogs. (* 2, 3, 5 & 6)
5. Discuss the procedure for completing equipment procurement forms. (* 1 & 4)
6. Demonstrate procedure for completing equipment procurement forms. (* 1, 4, 5 & 6)
7. Assign student an equipment procurement form and equipment specifications and requirements and instruct the student to complete the equipment procurement form. (* 4, 5 & 6)
8. Evaluate the students as they complete the equipment procurement forms. (* 7)

Resources

1. Biomedical equipment department policy/procedure manual.
2. Clinical Engineering Section. (1988). Training manual for biomedical equipment technicians, Part 1. Chicago, IL: American Society for Hospital Engineering, AHA.
3. Simmons, D. & Wear, J. (1988). Clinical engineering manual (3rd Ed.). North Little Rock, AR: Scientific Enterprises, Inc.
4. Example of a purchase requisition.
5. Sample biomedical equipment catalogs/brochures.

E L E M E N T S L I S T

Occupation: 117 Biomedical Equipment Technology
Duty A PERFORMING ADMINISTRATIVE AND CLERICAL FUNCTIONS
Task 002 Coordinate biomedical equipment procurement

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6. Sample biomedical equipment specifications list.
 7. Performance checklist - Coordinating biomedical equipment procurement.