

CLASS TITLE: CLINICAL ENGINEERING TECHNOLOGIST

Class Code: 02723300
Pay Grade: 23A
EO: E

CLASS DEFINITION:

GENERAL STATEMENT OF DUTIES: To be responsible for the performance of technical engineering duties relative to the maintenance, repair, calibration and safety of electronic patient care equipment and patient environmental life support systems; to be responsible for conducting the required periodic inspections of such equipment; and to do related work as required.

SUPERVISION RECEIVED: Works under the general direction of a superior with considerable latitude for the exercise of independent judgement and initiative; work is subject to review through consultation and on completion for results obtained.

SUPERVISION EXERCISED: May direct the work of technicians and others assigned to assist.

ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:

To be responsible for the performance of technical engineering duties relative to the maintenance, repair, calibration and safety of electronic patient care equipment and patient environmental life support systems such as: heart monitors, pacemakers, incubators, respirators, compressors, air pumps, light supplies, surgical tables, etc.

To be responsible for conducting required periodic inspections on all electronic patient care equipment and environmental life support systems.

To test all new and present equipment for leakage current and other possible faults.

To perform systematic evaluations of power lines for proper electrical power distribution and to label each circuit as to their safety limits.

To test all receptacles for proper grounding, polarity, tension and any other mechanical insecurity.

To analyze and detect any irregularities with the electronic equipment or the power supply, and develop and apply appropriate solutions and work methods.

To develop and maintain practical and formal in-service informational programs and lectures for equipment operators and other staff personnel, directed at protecting patients, personnel and equipment.

To continually review the operation and maintenance of electronic equipment to secure maximum usefulness and economic life.

To prepare reports of activities and the results obtained therefrom.

To do related work as required.

REQUIRED QUALIFICATIONS FOR APPOINTMENT:

KNOWLEDGES, SKILLS AND CAPACITIES: A thorough knowledge of the principles, practices, methods and techniques necessary to repair and/or calibrate defective electronic hospital equipment; a thorough knowledge of basic electronic principles and circuits; the ability to operate all electronic equipment utilized by hospitals; a thorough knowledge of the occupational hazards of electronic equipment in hospitals and of the precautionary measures required to assure safety of patients and personnel; the ability to supervise subordinates in servicing or repairing hospital electronic equipment; the ability to operate testing devices such as ohmmeters, voltmeters, etc.; the ability to make analyses and recommendations relative to changes in repair and calibration schedules; the ability to prepare and maintain clear, accurate and informative records and reports; and related capacities and abilities.

EDUCATION AND EXPERIENCE:

Education: Such as may have been gained through: graduation from a college of recognized standing with a Bachelor's Degree in Electrical Engineering and specialization in Biomedical Engineering; and

Experience: Such as may have been gained through: full-time employment in a responsible engineering position involving the inspection, repair and/or calibration of electronic clinical equipment.

Or, any combination of education and experience that shall be substantially equivalent to the above education and experience.

Class Created: July 2, 1978

Editorial Review: 3-15-2003