

**CLASS TITLE:                   ADAPTIVE EQUIPMENT DESIGNER  
  AND FABRICATOR**

**Class Code: 02390400  
Pay Grade: 18A  
EO: G**

**CLASS DEFINITION:**

**GENERAL STATEMENT OF DUTIES:** To be responsible for the development, operation and maintenance of equipment designed to meet special needs relative to patient positioning, mobility and environmental control; and to participate in appropriate grant and service development; and to do related work as required.

**SUPERVISION RECEIVED:** Works under the direction of a Physician, Physical Therapist, or Registered Occupational Therapist with considerable latitude for the exercise of independent judgement and initiative; work is subject to occasional review for conformance to accepted standards, practices and procedures.

**SUPERVISION EXERCISED:** May supervise and/or review the work of subordinates engaged in the design and maintenance of adaptive equipment.

**ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:**

To participate in multidisciplinary assessment of patient's functioning level, with specific emphasis on evaluating specialized needs for wheelchair positioning, environmental control devices, and communication devices.

To provide hands-on patient care in areas of joint flexibility, muscle tone, tolerance and functional skills to assess equipment and positioning needs.

To coordinate adaptive equipment and positioning clinics.

To assess for different types of power wheelchair controls, such as sip-n-puff, head and chin operated, foot operated and single switch scanning controls.

To assess for different types of environmental and equipment controls such as remote control ultrasound, radio control, or single switch control to allow for operation of items such as televisions, stereos, telephones, lamps, fans, etc.

To evaluate patient response and adjustment to equipment as it relates to mobility, comfort and function.

To design and fabricate custom fit seating systems (Matrix).

To compile statistics regarding patient use of wheelchairs and adaptive equipment, evaluate allocation of resources, and facilitate delivery service.

To provide training to staff, patients, and family members regarding use and care of adaptive equipment.

To develop grant and funding proposals related to acquisition, operation, and maintenance of adaptive equipment.

To foster cooperative contact with service providers in the community.

To do related work as required.

**REQUIRED QUALIFICATIONS FOR APPOINTMENT:**

**KNOWLEDGES, SKILLS AND CAPACITIES:** A working knowledge of the principles, methods and techniques applied in the construction, repair, maintenance, testing and inspection of adaptive equipment such as power and manual wheelchairs, positioning devices, and environmental controls; the ability to work with a multidisciplinary team to assess patient needs relative to adaptive equipment and to evaluate

patient response to the provision of adaptive devices; the ability to oversee staff engaged in the basic provision of adaptive equipment.; and related capacities and abilities.

**EDUCATION AND EXPERIENCE:**

Education: Such as may have been gained through: graduation senior high school or its equivalent with evidence of mechanical expertise suitable to the development and maintenance of adaptive equipment.

Class Created: December 19, 1999

Editorial Review: 3/15/03