

## COUNTY OF SOLANO

### BUILDING TRADES MECHANIC

Rev. 8/95

#### **DEFINITION**

Under direction, performs a variety of building construction maintenance and repair tasks requiring journey level skill in the building trades; performs related work as required.

#### **DISTINGUISHING CHARACTERISTICS**

This class describes journey level work in the construction, repair and maintenance of County buildings and building support equipment. Assignments cover the full spectrum of the building trades (e.g., carpentry, plumbing, electrical, masonry, locksmithing and window glazier) from rough to finish work. This class is distinguished from Lead Building Trades Mechanic in that the latter has lead responsibility within the building repair section.

#### **EXAMPLES OF DUTIES**

Duties may include but are not limited to the following:

1. Constructs, repairs, and/or installs rough and finish counters, cabinets, bookcases, shelving, desks, framing, stairs, concrete forms, fencing and attendant hardware; operates a variety of hand and power tools and specialized equipment including arc welding and cutting torch, backhoe, dumptruck, skiploader, and forklift when needed to perform a particular construction or repair job.
2. Constructs repairs and/or installs flooring and ceilings, glass and insulation; pours and finishes concrete including sidewalks and equipment pads; lays blocks and ceramic tiles, prepares walls, ceilings, and floors to be finished including but not limited to patching, taping, sanding and texture; applies finished flooring such as vinyl, tile, and carpet; applies wall, door cabinet, and furniture finishes such as paints, staining, sealers, polyurethanes, and varnishes.
3. Troubleshoots, repairs, and installs a variety of electrical systems and equipment; inspects, repairs and installs a variety of lighting systems including incandescent, fluorescent, vapor and sodium lamps; installs and repairs photo cells, time clocks, relays, and electric locks; ensures that electrical systems and fixtures meet electrical code and safety requirements.
4. Installs and repairs plumbing and fixtures related to water distribution and waste disposal systems; installs fixtures such as drinking fountains and commodes; cuts, threads and fits plastic, metal and clay pipe.

## **Building Trades Mechanic**

### **EXAMPLES OF DUTIES (Continued)**

5. Prepares materials lists, estimates and charge slips; moves furniture incidental to maintenance activities.

### **QUALIFICATION GUIDELINES**

#### **Education and/or Experience**

Considerable construction experience which included exposure to a variety of the building trades and which demonstrates possession of and competency in requisite knowledge, skills and abilities. Typical qualifying experience would be:

One year of experience as a journey worker in electrical, plumbing, carpentry or closely related craft field.

#### **Knowledge/Skills/Abilities**

**Considerable knowledge of** the methods, materials, machines, equipment and tools used in the building trades and their use; building safety and the building code; shop practices.

**Skill in** the methods and procedures of the building trades and in the use of common specialty hand and power tools associated with the trades.

**Ability to** read and interpret building plans and blueprints; estimate materials required for a specific job; follow verbal and written directions; communicate effectively both verbally and in writing; establish and maintain cooperative working relationships; demonstrate tact and diplomacy; make routine arithmetical calculations; recognize and respect limit of authority and responsibility; perform a variety of building trades in a variety of settings.

### **SPECIAL REQUIREMENTS**

Possession of or ability to obtain a valid Class C driver's license may be required.

### **SUPPLEMENTAL INFORMATION**

Independent travel will be required.

Incumbents must be able to perform heavy manual labor associated with building construction and maintenance tasks which may include lifting objects weighing up to 100 pounds and working with the full range of body movements involving reaching, bending, grasping and climbing.

## Building Trades Mechanic

### SUPPLEMENTAL INFORMATION (Continued)

Incumbents may work outdoors in all types of weather conditions and may also be required to work in or around hazardous or adverse conditions.

Candidates for some positions in this class may be required to pass a background investigation in accordance with applicable policy. Depending on assignment, some incumbents must be able to work in a jail environment and demonstrate working knowledge of security techniques and procedures.

Depending upon the needs of the department, certain specified building trades skills may be preferred.

Department Head \_\_\_\_\_ Date

Department Head \_\_\_\_\_ Date

Department Head \_\_\_\_\_ Date