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CLASSIFICATION TITLE	OFFICE/BRANCH/SECTION	
CT Equipment Operator II	District 11 / Maintenance / East Region	
WORKING TITLE	POSITION NUMBER	EFFECTIVE DATE
CEO II, Bridge/Mudjack Crew	911-610-6286	

As a valued member of the Caltrans team, you make it possible for the Department to provide a safe, sustainable, integrated, and efficient transportation system to enhance California's economy and livability. Caltrans is a performance-driven, transparent, and accountable organization that values its people, resources and partners, and meets new challenges through leadership, innovation and teamwork.

GENERAL STATEMENT:

Working under the supervision of a Caltrans Bridge Maintenance Supervisor or lead worker, the incumbent operates equipment identified as Category 1 and Category 2 used by assigned unit, and works individually or with a crew performing tasks related to bridge maintenance. Will involve working safely at heights above water and/or the traveled roadway. Incumbent will be required to work overtime including nights and weekends, may be required to work temporary and/or intermittent varied work shifts, and is expected to respond to emergency calls. The position requires out-of-town travel, approximately 8 weeks per year, usually in week-long increments. Can also perform tasks related to highway maintenance and landscape work. A Class A unrestricted driver's license w/Tank endorsement is required. May be loaned to another crew. Duties include but are not limited to:

CORE COMPETENCIES:

As a CT Equipment Operator II, the incumbent is expected to develop the following competencies as described below in order to successfully perform the essential functions of the job, while adhering to and promoting the Department's Mission, Vision, Values, and Goals.

- **Communication:** Expresses oneself clearly in all forms of communication. Gives feedback and is receptive to feedback received. Knows that listening is essential. Keeps others in the Division and other functional units informed as appropriate. (Safety and Health, Stewardship and Efficiency - Teamwork, Innovation)
- **Ethics and Integrity:** Demonstrated concern to be perceived as responsible, reliable, and trustworthy. Respects the confidentiality of information or concern shared by others. Honest and forthright. Conforms to accepted standards of conduct. (Stewardship and Efficiency - Commitment)
- **Initiative:** Ability to identify what needs to be done and doing it before being asked or required by the situation. Seeks out others involved in a situation to learn their perspectives. (Safety and Health, Organizational Excellence - Integrity, Commitment, Teamwork, Innovation)
- **Learning on the Fly:** Learns quickly, is open to change, experiments, and is flexible. (Safety and Health - Commitment, Innovation)
- **Reliability:** Ability to demonstrate dependability in meeting commitments, and providing a consistent work product. Takes responsibility for individual actions in order to meet deadline demands. (Sustainability, Livability and Economy - Commitment)
- **Teamwork/Partnership:** Develops, maintains, and strengthens partnerships with others inside or outside of the organization through effective communication and collaboration. (Safety and Health, Stewardship and Efficiency, Sustainability, Livability and Economy, Organizational Excellence - Integrity, Commitment, Teamwork, Innovation)
- **Technical Expertise:** Depth of knowledge and skill in a technical area. (Safety and Health, Stewardship and Efficiency, Sustainability, Livability and Economy, Organizational Excellence - Integrity, Commitment, Teamwork, Innovation)

TYPICAL DUTIES:

Percentage	Essential (E)/Marginal (M)[1]	Job Description
60%	E	Maintenance and repairs of all bridge types, Bridge components and Bridge materials, and other structures. Cleaning and repair of bridge decks, drainage systems and lubrication of bridge components. Repair of concrete, asphalt, epoxy overlays and slabs for bridge decks and roadways; repair and maintenance of structural steel, concrete, and timber structures. Operating various types of pneumatic tools. Service and make minor equipment repairs.
20%	E	Operate Category 1 and Category 2 equipment used by the assigned unit, such as but not limited to: bridge tender, scissor lift, Balsi Beam, JLG personnel lift, fork lift, shadow vehicle, cone truck, under bridge inspection truck (UBIT), and cargo truck.
15%	E	When not doing the accomplished tasks normally performed by the assigned unit. Other such tasks may include, but are not limited to: stenciling bridges, signs associated with bridges, fence along bridge areas, traffic control; implement, maintain, and install storm water BMPs; trim trees, shrubs, and landscape vegetation in and around bridges; remove litter and debris from the roadsides.

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5%	M	Assist with training including equipment operation and use of tools & materials. Assist with ordering materials. Using various computer software, may complete minor labor and usage reports.

[1]ESSENTIAL FUNCTIONS are the core duties of the position that cannot be reassigned.
MARGINAL FUNCTIONS are the minor tasks of the position that can be assigned to others.

SUPERVISION OR GUIDANCE EXERCISED OVER OTHERS

None. May oversee less experienced crew members performing a specific operation. May be placed in charge at a job site in the temporary absence of the lead worker and supervisor.

KNOWLEDGE, ABILITIES, AND ANALYTICAL REQUIREMENTS

Knowledge of:

- Minor construction, repair and maintenance work (welding, cement work)
- Provisions of the California Vehicle Code as it applies to the loading and operation of motor vehicles
- Familiarity with a variety of highway maintenance and construction equipment.
- Basic safe working practices and the safety and health policies and procedures contained in the Department's Injury and Illness Prevention Program

Ability to:

- Operate radio communication equipment
- Communicate and follow directions at a level required for successful job performance
- Skillfully operate heavy equipment in the performance of assigned duties; make minor adjustments and emergency repairs
- Do heavy manual labor to assist in work related to highway maintenance
- Keep records of equipment usage and servicing
- Basic safe work practices to protect safety and health of self and others
- Work effectively alone or cooperatively with others
- Work safely around high-density traffic.
- Work at heights of 200 feet or more.
- Must be able to evaluate various work situations accurately and make sound decisions.

Possession of a valid Class A unrestricted Commercial Driver License with a minimum of tank endorsement is required.

RESPONSIBILITY FOR DECISIONS AND CONSEQUENCES OF ERROR

Error may endanger co-workers and/or the public. Error may also cause a waste of time and waste of tax dollars through extra expense in the maintenance of highways, or damage to State equipment and facilities.

PUBLIC AND INTERNAL CONTACTS

Required to maintain good relations with members of the public and employees from the same and other departments within Caltrans, as well as other agencies. May have contact with other public agencies and private individuals almost daily in the course of assignment. Contact may be with hostile public, and employee is expected to maintain a favorable public image for the State.

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PHYSICAL, MENTAL, AND EMOTIONAL REQUIREMENTS

Almost all work is done in close proximity to traffic and equipment; incumbent must hear at a level sufficient to hear warning shouts and backup bells. Incumbent must possess sufficient peripheral vision to be aware of changes in surroundings. Prolonged sitting required to operate equipment; sufficient manual dexterity to operate controls and tie-down equipment to be hauled. If assigned to storm patrol, incumbent will be seated in his/her equipment length of shift. Much of this position is labor intensive. Incumbent must have physical ability to react quickly to errant motorist and do strenuous hand and mechanical labor.

Note: For standing, walking and sitting, along with several other activities, typical duties are used as examples in various situations to give ranges for the activities. Generally, activities can be broken down into operating equipment 40% of the time on a year-around basis. The remainder of the activity is labor. Standing, Sitting and Walking is described to equal 100% of the work time for a given period such as a work shift. The following are various situations and percentages given to illustrate typical ranges of time spent sitting, standing and walking:

A. Rainy day where worker is digging out clogged ditches and drains: Standing and walking using hand tools 40% each: Sitting and driving 50%.

B. Litter pickup/patrol: Lifting, walking and climbing in/out of vehicle 95% of day

C. Flagging/Pilot Car/Lane Closure Operations: Standing, twisting and turning, and sitting 95% of the day

Lifting (Floor to bench to Floor) – Items listed may be any of the following but not limited to: bags/ buckets of concrete, buckets of rock, and buckets of bridge repair debris which all may weigh as much as 75 lbs. Various heavy pneumatic tools. All listed could be handled on an every day basis. Each shovel full lifted weighs approximately 15 lbs., and 200 to 2,500 lbs. of concrete or debris per day, would normally be lifted. 80% of this lifting would be floor to waist and 20% lifted above the waist.

Another type of lifting is light pickup – loading garbage bags with litter, which requires continuous bending and lifting.

Carrying – Bagged/boxed material, which may weigh 50 to 100 lbs., must be carried from storage areas to vehicles and from vehicles to job sites, which may be on uneven terrain. Tools are carried a few feet to 100 yards and weigh a few ounces to 50 lbs. each. Tools carried include picks, hoes, various pneumatic tools, hoses, signs, standards, flags, and cones, guide posts, etc. and may be carried on uneven terrain. Overhead reaching – Overhead work includes pulling yourself up into many types of equipment from 0 to 30 times per day, varying tasks on bridges above your head, pruning, holding up signs off a ladder, servicing equipment on the lube hoist, signaling other workers, and throwing/ loading material in equipment. Other Reaching – Setting cones, lubing and checking equipment, raking, shoveling, driving, using digging bar, shifting, holding signs picking up cones; often done on a continuous basis, over 60% of the work shift. Pushing/Pulling – Shoveling, hooking up trailers; installing plows, sanders, kettles, pulling on hoses, working cranks on equipment stands; tightening and loosening nuts on bolts. Installing and removing tires and chains. Pulling brush and limbs, animal carcasses, and pulling chains. Twisting - The Operator twist while driving equipment and does so on a continuous basis, especially while backing up or turning around while operating a pilot car. Other twisting is done while dragging brush, shoveling, raking and setting down and picking up traffic cones which weigh 10 lbs. Climbing/Balancing – Climbing is done in and out of equipment, up and down banks and used in fine manipulation of a chain slopes, ladders, stairways, (often with a load of material or supplies); onto steps and walkways to do engine checks on equipment. One example would be to climb on a heavy equipment trailer to secure the load with chain binders. Bending/Crouching/Squatting/Crawling – The Operator often bends continuously throughout the day while operating equipment and performing physical labor. All of these activities are necessary when picking up and laying down tools and material. The Operator also crawls around and underneath equipment while checking and servicing equipment, putting on or removing snow chains and tightening or replacing grader blades. Simple Grasping – This activity is necessary about 95% of the shift climbing in/out and around equipment, operating equipment, using hand tools and handling materials. Fine Manipulation – This occurs less than 2% of a day and usually while writing reports or manipulating the knobs and levers on the equipment. A higher percentage of the time would be saw or similar equipment.

Importance of hearing and sight – both are essential on the job because the operator must hear directions and equipment, and must see in order to perform his/her duty safely.

Hearing should be adequate to hear warning devices used for worker safety, i.e. look out alarm devices, including vehicle horns used to warn employees of eminent danger at the work site. Corrected hearing is acceptable.

Sight needs to be corrected to the State of California Department of Motor Vehicles standards for safe vehicle driving. Night vision must be good for safety when working after dark.

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WORK ENVIRONMENT

Required to work in a wide range of sometimes-extreme conditions, including heat up to 120 degrees, cold to 25 degrees, strong winds, rain, sleet, and snow. Assignments will generally be within the 2 counties in D-11; significant overnight travel on per diem may be required. Much of the work will be performed in high and confined spaces.

Will be required to work overtime due to storms, emergencies, special work projects, or when the Supervisor deems that it is in the best interest of the State to work overtime.

Personal safety requirements include:
A. Work boots, in good and sturdy condition, must be worn to provide foot and ankle support protection.
B. Either long or short-sleeved shirts provided by Caltrans, or a safety vest is to be worn over non-safety shirts or coats.
C. Long pants. No shorts or cutoffs.
D. Provided safety gear; hard hat, safety glasses, hearing protection devices, face shields, gloves, respirator, chaps, harness or other safety gear must be worn when required by the Department.

Possession of a valid driver's license is required to operate a State vehicle.

I have read, understand and can perform the duties listed above. (If you believe you may require reasonable accommodation, please discuss this with your hiring supervisor. If you are unsure whether you require reasonable accommodation, inform the hiring supervisor who will discuss your concerns with the Reasonable Accommodation Coordinator.)

EMPLOYEE (Print)

EMPLOYEE (Signature)	DATE

I have discussed the duties with, and provided a copy of this duty statement to the employee named above.

SUPERVISOR (Print)

SUPERVISOR (Signature)	DATE

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