

Job Dictionary Prepared by:

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## Occupational Health and Safety Consultant

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For workers and employers in the automotive industry
and their medical / other providers

### Auto Electrical

Task Breakdown & Risk Assessment

Replacing Starter Motor

**Purpose of this document**

This tool is a detailed job/task breakdown designed to identify those tasks, their duration and what other supports might be needed to match an injured employee’s work capabilities. This activity is designed to align with any remaining duties to help maintain productivity in the workplace.

This tool is to be used by Medical Specialists, General Practitioners and other providers to help in workplace assessment and is designed to be used in consultation with the injured worker, employer and case manager.

This tool if used early in the injury will help with planning namely - when, how and under what circumstances an employee will return to work. It should also help fellow employees, line managers, employers, family/household persons to understand the injured workers’ capacity and assist counsellors to provide appropriate advice and support

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| Skills Required: |
| * Motor vehicle operation and repair, knowledge of electrical repairs, equipment maintenance, operation monitoring, troubleshooting, operation and control, quality control analysis, critical thinking, equipment selection, active listening, judgment and decision making, handling and moving objects, performing general physical activities, inspecting equipment, structures or material, problem solving, tool operation.
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| SPECIAL SKILLS: |
| READ | Simple | WRITE | Never |
| SOLVE | Moderate | COMMUNICATE | Occasional |
| PRECISION | Constant | COORDINATION - FINE | Constant |
| COORDINATION - GROSS | Constant | FOOT OPERATIONS | Never |
| PPE: |
| BOOTS | Safety | EYE WEAR | Safety Glasses |
| HEARING | Required | HAIR NET / BEARD | Not Required |
| HEAD GEAR / HELMET | Not Required | SAFETY VEST / CLOTHING | Required |
| SUN PROTECTION - HAT | Not Required |  |  |
| ENVIRONMENT: |
| TEMPERATURE | Controlled Moderate | LIGHTING | Bright |
| NOISE | Light Factory | WIND VELOCITY | Indoor |

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| TASK ANALYSIS |
| Description: This task involves replacing the starter motor, specifically seen in a cement mixer. The worker is required to work in over reaching postures to test and unscrew the starter motor. After the old motor is removed, a new motor is placed inside and screwed in, with wires soldered and clipped as they are connected. This task is conducted in a standing posture, reaching with both arms requiring gross and fine bilateral manual dexterity. | Critical Work Demands:* Constant standing / walking
* Constant gross and fine bilateral motor eye hand coordination
* Constant bilateral palmar / pincer grasping
* Frequent neck flexion (0°-70°) and extension (0°-45°)
* Constant shoulder flexion (0°-175°), extension (0°-45°) and abduction (0°-175°)
* Frequent elbow flexion (0°-140°)
* Frequent forearm pronation / supination
* Frequent lumbar flexion (forward stooping)

Occasional lifting capacity approximating 15kg |
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