



February 20, 2020

Motorsports Mechanic Job Description

General Description

Crown Concepts is searching for an experienced motorsports mechanic to help us service and build track specific vehicles.

Knowledge of the makeup, operation, and installation of complex major systems and assemblies to troubleshoot and repair a variety of systems or to rebuild one or more systems such as the following: transmissions and gear reduction systems; transaxles; driveline and rear axle assemblies including electrical, air, vacuum, or mechanically controlled differentials; electrical and electronic systems and accessories (ignition systems, charging and starting systems, and wiring and lighting systems); fuel injection systems; exhaust; steering mechanisms and hydraulic power-assist systems; and other systems of similar complexity. General vehicle dynamics.

Ability to determine how far major components should be torn down, what parts and mechanisms can be reworked and refitted or should be replaced with new parts, and the type and extent of adjustment and alignment required.

Skill in the use of hand and power tools common to the occupation (e.g., wrenches, screwdrivers, insulated pliers, electric drills, pneumatic wrenches, and soldering irons) and a wide variety of specialized tools and test equipment (e.g., bench lathes, grinding and seating equipment, clutch pilot and gear puller tools; precision measuring tools such as dial gauges, micrometers, dial indicators, and calipers; vacuum gauges, tachometers, compression testers, capacity testers, coil testers, and pressure bleeding devices). Experience with set up tools a plus.

Position Type and Expected Hours of Work

- Full time position
- Average 50 hrs per week/ 2500 hours per year
- At track start time will vary with schedule

Required Education and Experience

- Associate's degree in High Performance Vehicle Technology or Automotive Technology is preferred
- Equivalent experience working with High Performance Vehicles will be considered

Work Environment

Work is performed both inside and outside. Inside work is performed on concrete surfaces where there is exposure to drafts, noise, and fumes from vehicles. Outside work can occur under adverse weather conditions. Noise level in the work environment (race track) is frequently loud.



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The candidate would be continually exposed to dirt, dust, and grease, and to the potential for burns, chemical irritations, shocks, bruises, cuts, and strains. To reduce dangers and irritations from these conditions, employees follow prescribed safety practices and use safety equipment.

Some work is to be performed inside, in a standard office setting.

Physical Demands

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

Workers at this level make repairs which often require them to work in tiring, awkward, and uncomfortable positions. They frequently stand for long periods of time, bend, stoop, crawl under vehicles, and make repairs in other tight spaces. They frequently lift, handle, and carry parts and equipment weighing up to 18 kilograms (40 pounds). Occasionally, they move moderately heavy items with assistance or with mechanical devices, including objects weighing up to or over 23 kilograms (50 pounds).

Direct Responsibilities

- Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.
- Maintain and repair the racing car or cars.
- Troubleshooting, repairing, and/or overhauling major components and systems such as engines, transmissions, differentials and transaxles, electronic fuel injection systems, electronic, hydraulic, fuel, and other assemblies.
- Disassemble, repair, replace, recondition, and rebuild components of the various systems, and make independent judgments based on specifications in technical manuals and on accepted trade practices.
- Complete in-race repairs
- Provide pit and paddock assistance as needed
- Assist with loading and unloading of truck
- Assist with set up of pits and paddock area
- Work with the driver, engineers, etc. to deliver constant improvements to the car.
- Suggest avenues of further development to facilitate future improvement of the car.
- Experience with Aim, LIFE, Cosworth, MODIS Diagnostic, AEM, Haltech are a plus
- Experience with the Google enterprise tools a plus. (DRIVE, DOCS, SHEETS)
- Competencies
- Ethical Conduct.
- Time Management.

Standard Operating Procedures

- Ability to follow and continuously improve standard operating procedures

Software Tools

- Google Docs, Google Sheets, Google Calendar



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Note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this job.

Duties, responsibilities and activities may change at any time with or without notice.

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