

ABSTRACT

The automotive maintenance and repair industry requires detailers to work in a seated position for extended periods during the car polishing process. Non-ergonomic seating positions can lead to postural issues that may result in long-term health problems, such as back, neck, and shoulder pain. This study aims to design an ergonomic work chair that supports good posture and enhances worker comfort in the automotive detailing industry.

Using a qualitative research method, data were collected through semi-structured interviews with detailers, observations of car polishing workers, and literature reviews. Data analysis revealed that essential ergonomic features include adjustable back support, seat height adjustment, a comfortable cushion, and a flexible design. The findings indicate that an ergonomic work chair with these features can improve comfort, work efficiency, and reduce the risk of injury among detailers.

The resulting chair design is expected to be an effective solution for minimizing postural issues, thereby improving worker health and productivity in the long term.

Keywords: *Ergonomic Work Chair, Postural Health, Worker Comfort*