Participative ergonomics in civil construction handbook: Reducing the risk of musculoskeletal injury in the civil construction industry. State of Queensland.

Ergonomic risk assessment is the systematic examination of all aspects of work. A participatory approach to ergonomics, also called participatory ergonomics (PE), relies on the active involvement of all stakeholders in the design and implementation of ergonomic solutions.

Participative Ergonomics for Manual Tasks (PerforM) is a simple manual task risk assessment framework for civil construction, construction related manufacturing and wholesaling, aged care, and other industries.

Malcolm et al. (2008) have described the value of participatory ergonomics in improving the health and safety of workers in underground coal mines and civil construction workplaces in Chile (1997) and a Diploma in Ergonomics from the University of Santiago. Subsequent research has shown the effectiveness of participatory ergonomics in reducing injuries and improving workplace efficiency.

A participatory approach was adopted involving a series of stakeholder workshops with representatives from national government agencies (NGAs), the academe, and civil society. This handbook, published by the Department of Transport Infrastructure (DTI) through the Bureau of Micro, Small and Medium Enterprises (BSME), aims to guide practitioners in applying participatory ergonomics in their work.

Civil and Mining Engineers have been trying to solve this problem using classical ergonomics, but this solution has been expanded on to meet the needs of construction problems. The United States Department of Energy Human Performance Improvement Handbook (2009) describes how participatory ergonomics can be applied to improve safety and efficiency in large-scale projects.

Cambridge Handbook of Engineering Education Research to large-scale practice, from classroom teaching to institutional models, and from single-subject to interdisciplinary and complex knowledge construction. American Society of Civil Engineers. International Journal of Industrial Ergonomics, 39, 533–540.


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