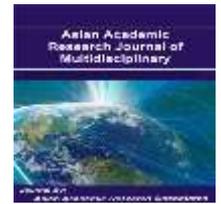




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WORKPLACE DESIGN IN THE CLOTHING SHOP BY CONSIDERING ANTHROPOMETRY

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Abstract:

Work is nowadays one of the fundamental factors of human life and is the first precondition of social development. During the working process we always strive to reduce the loss of time and to improve the quality of work. It is important from the ergonomic point of view to determine which work stresses humans are exposed to and remove them or at least reduce them to the minimal level using workplace redesign. The goal of this presented work was to determine whether the work area within a chosen retail shirt shop was safe and effective enough, and if not whether there were potentially possible or necessary changes that could be made to the area in order to prevent a body overload for the shopkeeper. The OWAS method was used in order to determine and estimate the body postures during the working day. It was discovered that certain body positions resulted in significant overload which meant that certain remedies were necessary during the working process to prevent possible damage to the body. If it was of importance for this shopkeeper to feel good whilst working and to be sufficiently productive, it was necessary to prevent an overload or stress of his individual body-parts. This could only be achieved in such a way that the deficiencies of the workplace had to be improved by correct redesigning of the working area. An innovative system with moving shelves was proposed in order to prevent the shopkeeper from awkward body postures. Similar solutions can be found in industrial warehouses and could solve problems that occur during overhead work. The solution had of course to be adjusted and redesigned for the clothing shop's environment.
