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SOME EFFECTS OF HVAC SYSTEM IN SPECIFIC WORKING ENVIRONMENT - A CASE STUDY

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Most of the work people perform in closed rooms. However, proper attention previously has not been directed to the problem of people working in offices without natural ventilation. The subject of this study is the influence of the HVAC system on health, working ability, absenteeism and the satisfaction of people working in an office without natural ventilation. There is no known ergonomic research that previously dealt with this topic, taking into account the above-mentioned specificity. A case study was conducted, which included fifteen employees of a branch of a company engaged in the provision of telecommunication services. Employees in the branch office of this company perform tasks in several rooms where no natural ventilation is applied. In view of this, special attention is paid to the practice of maintaining the HVAC system. An original questionnaire specially formulated for this purpose was used, which was answered by the staff of the company that maintains the HVAC system for the mentioned company. In addition, an adapted general health questionnaire was used, which also included issues related to the impact of the work environment on working ability and the satisfaction with the existing air quality. The results of the conducted research show what are the most pronounced health problems of the workers. It is concluded that in order to maintain the health of workers in offices without natural ventilation, a comprehensive approach is required, which involves more strict air control that involves

additional measurement of certain parameters of the air quality in regular intervals, as well as additional education of staff of firms who maintain HVAC systems.

Biography

Jovana Stevanovic is a graduated manager. She finished studies at Faculty of organized sciences in Belgrade. During the studies, she started to volunteer thanks to Faculty which organized several summer practices (Department of the Institute for children's summer camp, Bancalntesa, a private firm, called KBC-net, etc). After studies, she decided to try herself in NGO sector. She was a Leader of Event Team in ESN Belgrade organization, a non-profit international student organization, which mission is to represent international students in Belgrade. Also, she was a part of the organizing team of the School of Skill in section HR and Marketing. The project is designed so that students of Belgrade University, various colleges, provide knowledge of the skills that are needed during and after the study, and the relationships between people, incentives for progress and the ethics that should be kept on the job. There she was a team leader of FR (Finance Resources) Team. In the end she enrolled at the Faculty of Mechanical Engineering, the direction: industrial engineering where on the subject Ergonomics, she exploring the influence of the working environment on the productivity of employees

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