

# CUTTING-EDGE SCIENCE 2022

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## **CUTTING EDGE-SCIENCE**

2022 Shawnee, USA

Conference Proceedings

Primedia E-launch

Shawnee, USA

### **PRIMEDIA E-LAUNCH**

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## MEDICINE

### Hygienic assessment of the microclimate and lighting of the typography

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**Annotation:** In the printing industry activities, the quality of printed products and accuracy of working condition depend on many factors [1, p.43]. One of the important factors is to ensure optimal indoor microclimate factors [2, p.18]. The microclimate in the production environment should also be optimal for employees. Otherwise, it leads to a decrease in the quality of work activity and process, general condition of the worker, body thermoregulation and attention [3, p.253].

**Key words:** printing industry, microclimate factors, lighting, working place.

Hygienic assessment of microclimate parameters and lighting level in the working environment both in warm and cold periods of the year in the printing house of the Tashkent Medical Academy. The research was carried out by the laboratory of the TMA-KU collaborating research centre.

Meteoscope-M devices were used to determine the indicators of the microclimate of the working area, as well as temperature, relative humidity and air velocity. TES-1330A lighting meter (Digital lighting meter) were used for determine the general lighting level of working area. Measurements of microclimate factors in the workplace were carried out in accordance with the requirements of "Sanitary and hygienic requirements and rules of microclimate of the production rooms" No. of 0324-16 [4, p.18]. Measurements of lighting level of working area were carried out in accordance with the requirements of "Daylighting and artificial lighting" No. of 2.01.05-19 [5, p.46].

The measured results showed that the average temperature in the working area at different heights in a cold climate was  $23.5 \pm 0.5^{\circ}\text{C}$  in the printing house and also was  $23.8 \pm 0.1^{\circ}\text{C}$  in coating products and printing room, the level of relative air humidity  $37.9 \pm 0.2$  and  $37.3 \pm 0.2\%$ , and indoor air velocities were  $0.12 \pm 0.005$  and  $0.24 \pm 0.006$  m/sec respectively. The results of measurements showed the average level of general lighting in the printing house and coating products and printing house, respectively  $431 \pm 24.4$  and  $409.3 \pm 24.4$  lux.

In a warm climate, the air temperature in the same rooms was  $23.8 \pm 0.1^{\circ}\text{C}$  and  $24.5 \pm 0.1^{\circ}\text{C}$ ; relative air humidity  $35.5 \pm 1.0$  and  $30.5 \pm 0.26\%$ , air velocity



$0.02 \pm 0.006$  and  $0.06 \pm 0.005$  m/sec, lighting levels were  $386.6 \pm 19.95$  and  $307 \pm 18.3$  lux respectively.

In accordance with the requirements No. of 0324-16 in warm and cold climates, the temperature at the working place was set within the normal range (in a warm climate the optimum temperature range is 23-25 °C, in a cold climate is 18-20 °C), relative air humidity and air velocity were slightly below the normal range (the normal range of humidity is 40-60%, air velocity is 0.3 m/sec).

The level of general lighting at the workplace complied with the requirements No. of 2.01.05-19 and amounted to 385-455 lux (general lighting standard is 300-400 lux).

Conclusions, factors of the microclimate of the workplace and the level of general lighting in the "Typography" meets the above requirements, but to further improve health and productivity, recommended regular use of ventilation or air conditioning in the working area.

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