

## PH11: Evaluation of artificial lighting in workshops with shift work to improve the lighting system in the Takestan city in year1391

Ali Norouzi ghezel ahmad <sup>\*۱</sup> - Behzad Rahmani - Maryam Aghajani – mohhammad Reza Abbasi

### Abstracts

Lighting is one of the physical factors of the work environment and one Action of Clarification on surfaces of objects and recognize them for making visible. Good lighting can improve general working conditions. As a factor in physical health and safety of workers to meet normal operating conditions and implement best practice is necessary. If not done carefully in designing a lighting system for the effects of eyestrain, headaches, impaired vision, stroke (boldness) and work-related accidents are.

As regards the large number of workers are working in night shifts and Working at night makes it impossible to take advantage of the Sunlight The use of artificial light sources designed using the principles of electrical engineering methods can provide favorable conditions in the workplace. The present paper evaluates the artificial lighting of workplaces are 37 industrial units including 82 workshops. All measurements for the effects of natural light to zero after Azan At 18 to 22 In fall 1391 season

**Methods:** In this study, in all the factories studied, Important Factors affecting the utility of the lighting environment including intensity (measured against the model of IESNA and a network based on the arrangement of the lamps) the design of lighting, type of lighting, the layout of the lights and their maintenance has been studied

Results: at this project were reviewed 37 industrial units, all employees of the company is 4544 person . All salons and workshops, these companies were active in night shifts were evaluated in a total of 82 workshops are 2,066 people working night shifts in factories were The general lighting in these workshops in of the range (4-313)lux was. , Range general lighting required minimum estimates based on industry standards (70-300) lux was, and against the proposal (100-500) is a lux and Medium range lighting required by this industry (157-225) has been

...The sixth workshop of 82 workshop (with 147 people employment) with good brightness and 76 workshops (with 1,919 workers) have been unfavorable light Andyny 92/68 percent workshops and 92/88% of workers have been exposed to adverse lighting

This study shows that the situation is alarming light on the night shift. This was communicated to all industry executives Arbor city To improve the lighting conditions and the resulting health center announced. Venice is necessary to improve the lighting at night is done in other cities.

**Keywords:** artificial lighting, luxury, workshops, working standard

<sup>1</sup> occupational health experts Project Supervisor doctor Davood Rahmani, administrator Health Center