

MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHSTAN  
ALMATY UNIVERSITY OF POWER ENGINEERING AND TELECOMMUNICATIONS

**Dissertation**

on the topic of : INFORMATION SUPPORT OF INDUSTRIAL SAFETY AT JSC "KELET"

МИСП-17-2– «Information Systems»

Completed: Seitov K.A.

Scientific adviser:

Tabultaev SS

### *Relevance of the research topic:*

- The main ways to reduce injuries and increase efficiency at JSC "Kelet" are: the highest discipline; ensuring sufficient quantities and correct use of protective equipment in production; improvement of technological processes; creating normative, comfortable working conditions at each workplace for trouble-free and high-performance work; ensuring the safe operation of process equipment; the content of workplaces, domestic premises, the interior of the workshop premises, the adjacent territory in exemplary order; medical supervision.

### *Goals and objectives:*

The purpose of this dissertation is to identify and study occupational hazards and develop methods to prevent or reduce them in order to eliminate industrial accidents and occupational diseases, accidents and fires. In accordance with the goal, the following tasks were formulated

- to study the state of the state of labor protection;
- to study and identify Sources of environmental pollution;
- conduct an analysis of recorded cases of injuries and diseases;
- identify problems to improve fire safety;
- to propose measures on the Main ways to reduce injuries and increase the efficiency of work at JSC "Kelet"

## PRODUCTION DEPARTMENT OF JSC "KELET"





# THE DEPARTMENT OF TECHNICAL CONTROL OF JSC "KELET"



## WAREHOUSES OF JSC "KELET"





# SERVICE CENTER JSC "KELET"







# LASER CUTTING MACHINE "BYSTRONIC" FOR CUTTING METAL

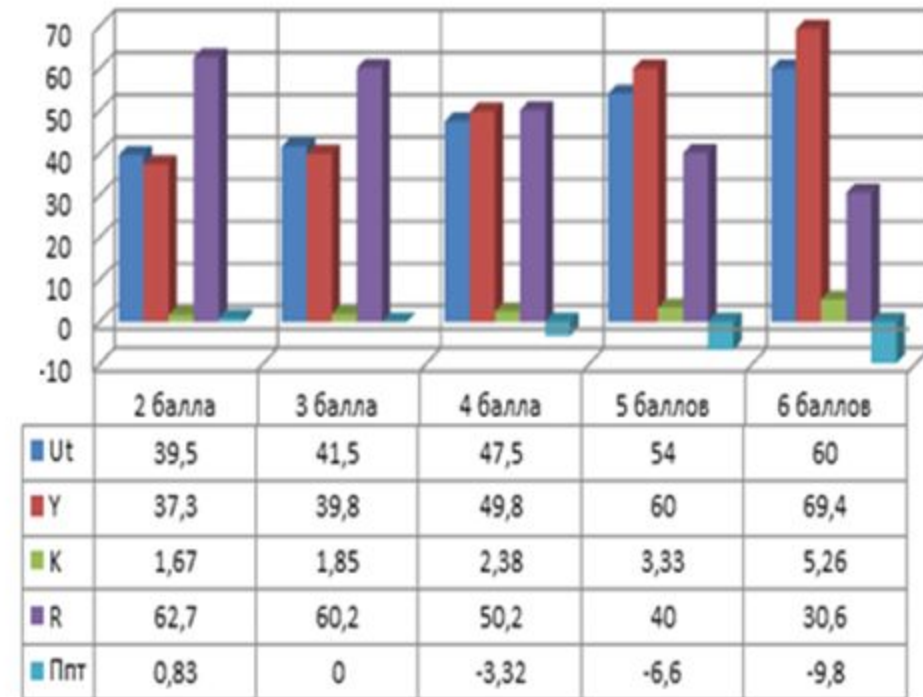
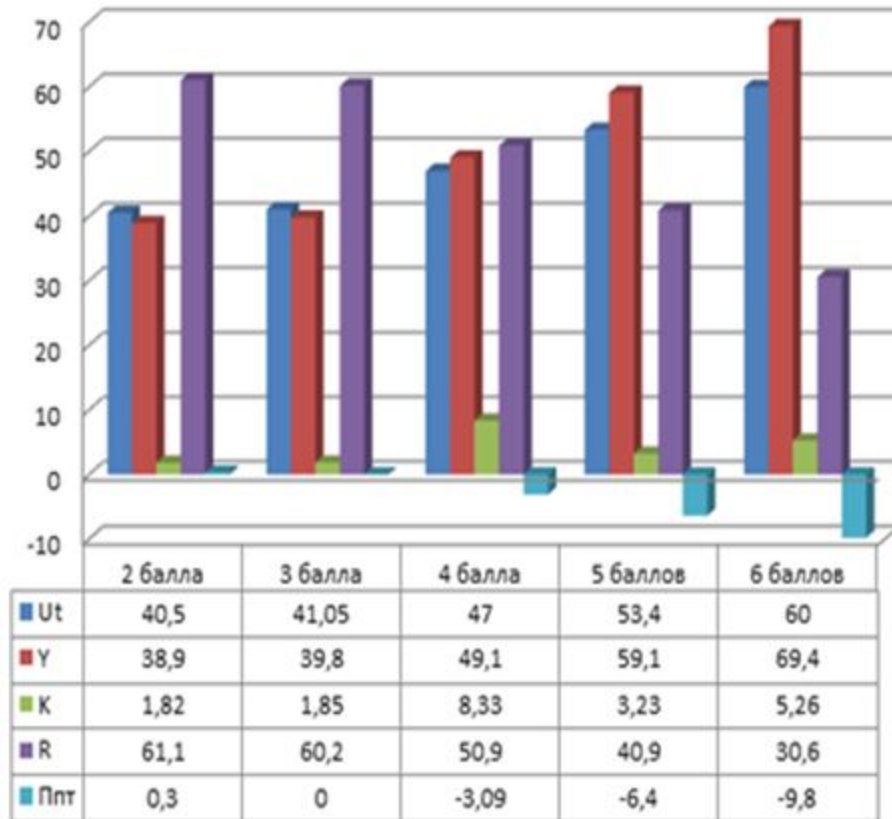




**TABLE - ACCIDENTS**

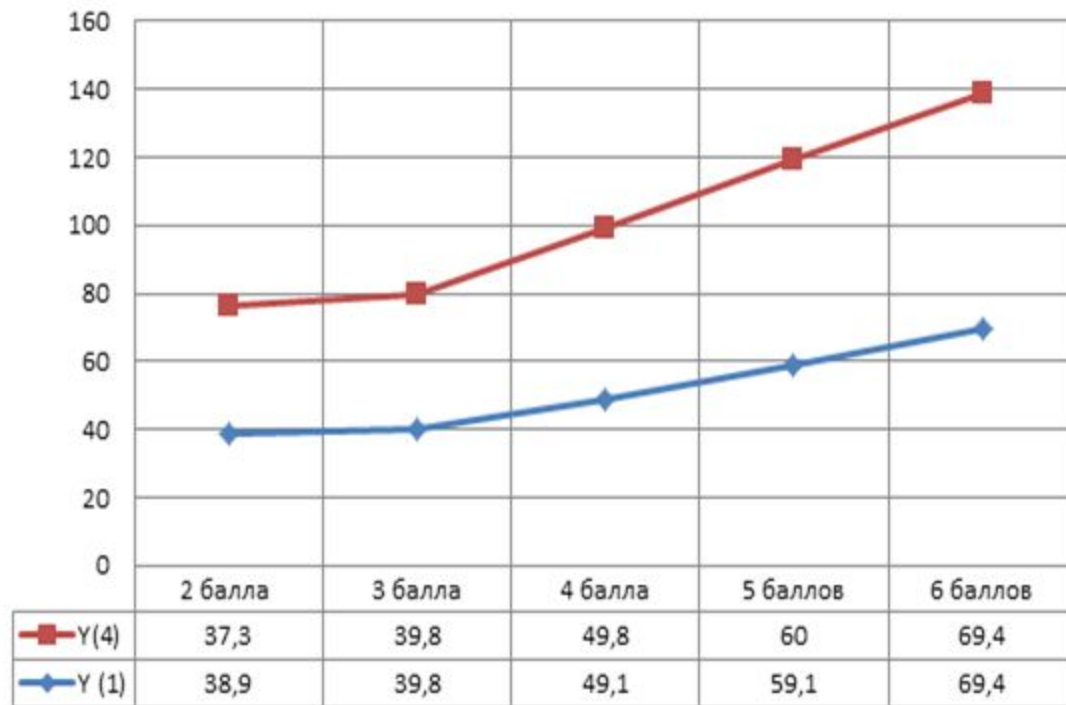
Годы	Количество несчастных случаев	Количество дней нетрудоспособности	<u>Кч</u>	<u>Кт</u>	(+) рост (-) снижение
2013	108	2558	5,5	23,7	- 48
2014	105	2478	5,5	23,6	- 3
2015	95	2239	5,0	23,6	- 10
2016	115	2963	6,0	25,7	+ 20

# HISTOGRAMS. DEPENDENCY OF INDICATORS WHEN THE PARAMETER OF THE WORKING ENVIRONMENT CHANGES





# HISTOGRAMS. COMPARATIVE ANALYSIS OF THE INDICATOR FOR VARIOUS CHANGES IN THE WORKING ENVIRONMENT



The image features a light gray background with a subtle gradient. In the top-left and bottom-right corners, there are clusters of realistic water droplets of various sizes, rendered with soft shadows and highlights to give them a three-dimensional appearance. The text "THANK YOU FOR ATTENTION!" is centered in the middle of the frame.

*THANK YOU FOR ATTENTION!*