

Engineering Psychology

Essay

Written by Ömer EMEKSİZ

Engineering Psychology

For today's technology every machine or machine part should be controlled by human kind. That means there can be problems about the procedure of working because human kind is not stable like machines, their behavior can change depending on their mood. In these cases we understand that engineering psychology is essential for every machinery plant. We need engineering psychology for the design of machines and equipment for human use, and determination of the appropriate human behaviors for the efficient operation of machines.

Engineering psychology's aim is to fulfill the two goals of health and productivity. It is relevant in the design such things like easy use interfaces to machines and equipment.

Engineering psychology is a combined study including several science groups and human behavior observation. Works with;

- Psychologists,
- Engineers,
- Medicine,
- Sociologist,
- Anthropologists,
- Computer sciences
- Other behavioral and physical sciences

Technical arrangements to make a concordance between employee and workplace, internal organization structure and external organization structure which are affecting the psychological status of employees are not enough. As well as doing this arrangement employer should consider the psychological

status of employee to fit the required job. Because all work places can keep working as soon as they care about their employees. If employees get satisfied with the job that they are doing productivity increases. Otherwise they become a problem for workplace with their negative effects.

There are several conditions that effect the psychology of employee. These are:

* Out-of-work Conditions

Not only working place conditions but also out-of-work conditions can effect the psychology of employee. Some of these are;

- Sadness happened by the death or injuries of the relatives.
- Family issues
- Transportation problems
- Personal annoyance

* Personal Relations In The Workplace

Employees can't do whatever they want. There are some boundries and rules that limit their acts. These rules are all fort he safety of the workplace. Also employer should provide the balance between people with the higher position and the lower position.

* Conditions of the Workplace

Productivity increases in the plants in which employees feel comfortable. Bad working conditions can negatively effect the psychology of workers.

There are some conditions about the workplace which are effect employees directly:

- Compatibility of workplace; such as: airconditioning, temperature, moisture, wideness, workplace lighting.
- Social environment
- Placement of machine or equipments (easy-to-reach)
- Suitable design of machines according to the capacity of the employees.
- If possible music for employees.
- Carrier center
- Sport facilities

* Working and Production Activities

Cosideration of employee's capabilities and capacities for the work and the production line increases the efficiency of the work and also employees get satisfied. Otherwise they feel uncomfortable and can cause damages. To make it;

- The rithm of work shouldn't be high and challenging,
- Brakes should be arranged according to workload
- Non of them should be expected to do the task more than their capacity,
- Protection of employees from dust and noise
- Equipments should design according to their physical ability
- Maintenance of the equipment should be done in every week and month.