

OCCUPATIONAL HEALTH & SAFETY



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OCCUPATIONAL ACCIDENTS & DEFINITIONS

=WORK ACCIDENTS

=JOB ACCIDENTS







- In general,
- An occupational **accident** is an **accident** that people suffer at **work**.
- It is an occurrence that the victim had not planned or expected.

Occupational Accident

- According to **International Labour Organization (ILO)**;
- Job accident is an unexpected event that leads to a certain harm or injury.



According to World Health Organization (WHO);

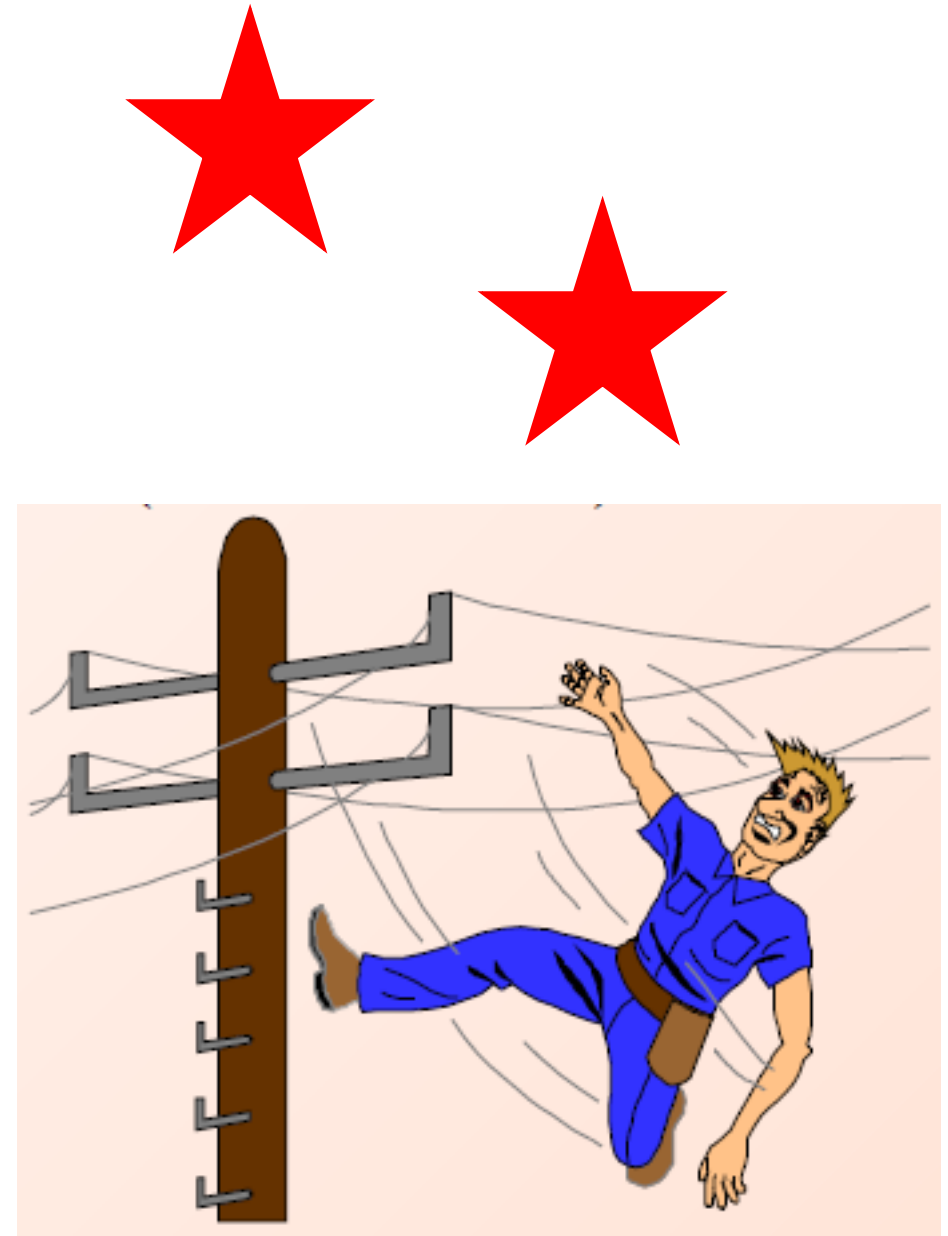
Occupational accident is an unplanned event that often leads to personal injuries, damage to machines, tools and equipments, and causes production to stop .



According to Labor Law no. 6331;

Occupational accident refers to the event that takes place in the workplace, causes death or makes body integrity mentally or physically disabled.

An occupational accident is an unexpected and unplanned occurrence.



Occupational Accident



Explosion



Fall



Animal Attack



Poisoning



Falling Object

Human



Attack

An accident that is work-related

Common workplace accidents:

1) Slip, trip and fall



If we obey the law 6331, accidents are completely avoidable where the correct safety measures are in place

Because of inadequate lighting, obstructions, uneven flooring, broken handrails on stairwells, loose/exposed wiring and other materials

Avoiding Slips, Trips and Falls at Work

Good housekeeping, quality surfaces and footwear are key factors that prevent accidents in the workplace from occurring.

Employees should be reminded to engage in safe practice and procedure in the workplace by employers. Hazardous variables such as clutter or spillage must be reported to prevent a slip, trip and fall accidents * in the workplace.



thechaosandthelutter.com



twinkl.com



- **2) Manual Handling – Moving Heavy Objects/Materials:**



[Manual handling](#) is another common workplace accident claim. It comes as no surprise that [back](#), neck and shoulder injuries are common for those who must lift objects as part of their daily tasks at work.

• Avoiding Manual Handling Injuries at Work



**CHECK YOUR BALANCE
AND
POSITION**



**WHEN LIFTING ITEMS
USE YOUR LEGS.
DO NOT JERK
WHEN YOU LIFTING**

Provide personal protective equipment such as gloves

**HOW TO AVOID
A MANUAL HANDLING
INJURY WHEN
LIFTING**



**WHEN MOVING YOUR
LOAD, MOVE FROM
YOUR FEET
DO NOT KEEP
HEAVIEST LOAD**



**ENSURE THAT OTHERS
CAN SEE YOU**

Firstly, Take appropriate organisational measures or use appropriate means, mechanical equipment, to avoid the need for manual handling of heavy loads by employees.

The distance at which an employee must move a heavy object must also be analysed and reduced where possible.

Physical capabilities of the employees should be considered

Provide manual handling training to all employees

uygun araçları, mekanik ekipmanı kullanın.

• 3) Being hit by falling Objects:

In all environments, injury from falling objects can happen. Falling objects can cause injuries such as cuts and head and brain injuries in severe cases.



Common causes of falling object injuries are:

- *Files, books, and other office tools and equipment falling from a shelf
- *Wall and ceiling fixtures become detached and falling
- *Tools and other construction materials falling from a height on a building site
- *Unsecured loads lifted to a height and falling



Avoiding Falling Object Injuries at Work

- Equipment should be stored at appropriate heights
- so that if it moves it won't fall on an employee



- In construction zones, using closed boarded platforms or kick boards to prevent objects
- from falling off the edge of scaffolding,



- Make employees aware of danger zones and how to store items properly to prevent future injuries



4) Injuries Caused By Inadequate Personal Protective Equipment (PPE)

- Accidents in the workplace tend to happen when employers fail to provide appropriate protective equipment (PPE) for workers.

Some of them;

Gloves
Steel toe capped boots
Protective overalls
High-vis jackets
Hard Hats
Safety Harness
Protective masks
Eye protection goggles



Helmets protect head against that bumps, falling objects and immediate contact elektrik shock

this subject will be discussed in detail later.

5) Falling from height (Yüksekten düşme)

Falling from scaffolding on a building site

Using a step ladder when it is not appropriate to do so

Overreaching and losing balance when on a ladder

Not ensuring the ladder is properly footed



6) Burn Injuries

- Common causes of burn injuries in the workplace * are:
- -Electrical burns from faulty electrical equipment
- -Contact with overheated machinery or tools
- -Chemical burns from contact with corrosive materials, acids or oils
- -Contact with direct heat sources such as welding.
- -Faulty wiring.



7) Vehicle Crashes



- These type of workplace accidents may involve cars, lorries or even other vehicles such as forklift trucks.

There are two different kinds of vehicle-related accidents:

- **On the Road** – Workers can be injured due to a vehicle-related accident while working on the roads or in traffic zones.
- **In the Workplace** – Operators of vehicles and equipment can injury to fellow employees.



- According to statistical data,
- Every 3 minutes, occupational accidents are happening in the world.
- Every 4 hours, a person dies
- Every year, 260 million occupational accidents are taking place in the world.
- Every year, 160 million people are caught occupational disease.
- Every year, 2 million 200 thousand people are dying due to accidents at work and occupational diseases.
- Turkey in fatal occupational accident is FIRST in Europe & THIRD in world.

1998-2009 years in Turkey:

- 927.727 occupational accident took place
- 4601 occupational disease detected.
- 10.543 people died as a result of an occupational accident & diseases.

- Each year, **5% of national income** consumed in these problem areas
- In 2007, Turkey's GDP \$ 659 billion. So Turkey 26.4 bilion dollars was lost .
- **5.4% of Global revenue** is lost from this disease .

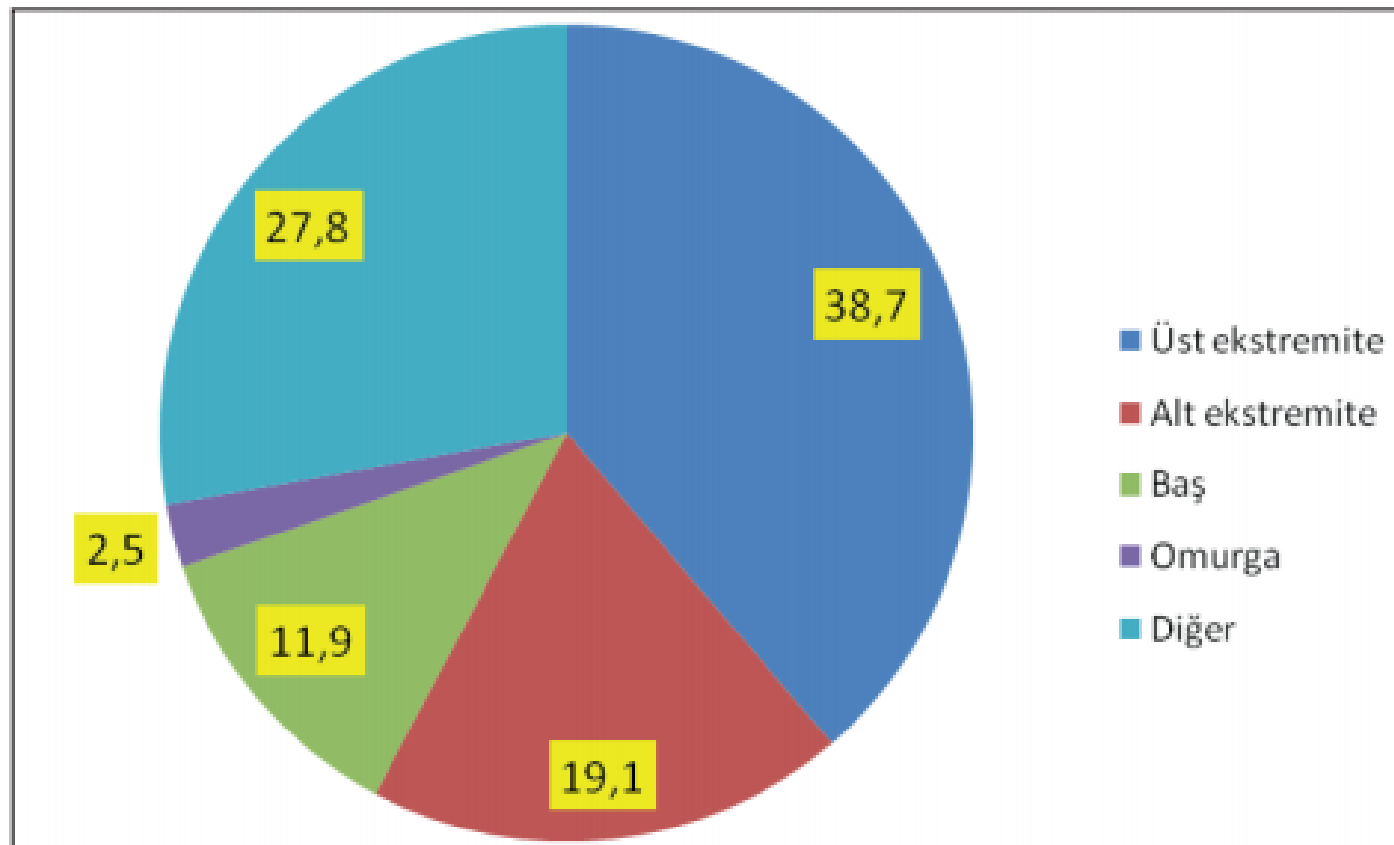
- Almost three quarters of occupational accidents occur during the daytime,
 - between 08.00 and 18.00.



Question: When do occupational accidents occur most often?

Answer: Between 08.00 and 18.00.

- The most commonly injured organs in occupational accidents are upper and lower extremities, and the head. ★
- In 38.7% of the accidents upper extremities are injured, followed by lower extremities (19,1 %); one every five accidents.



El-ayak sistemleri

Figure . Accidents by injured part of body, Turkey, 2014

- Unfortunately,
- Fatal occupational accidents are more common in Turkey, compared to European countries.
- In 2014, 1626 workers died (1589 males and 37 females) due to accidents, with an accident mortality rate of 11.6 per 100,000. ↪ whereas
- Accident mortality rate is in the range of 1 to 6 per 100,000 in most European countries.

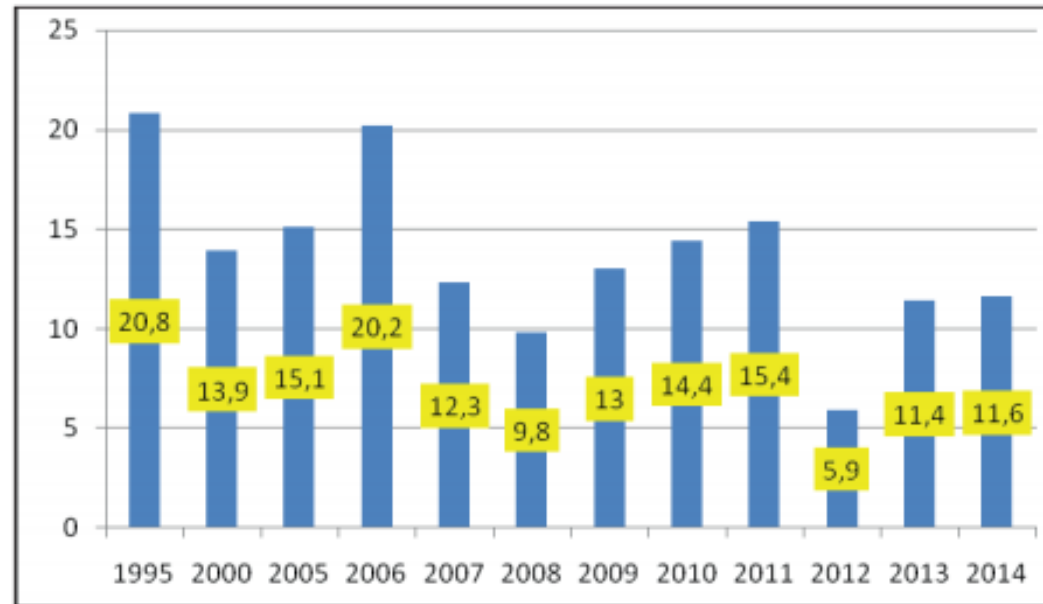


Figure 1 Occupational accident mortality rates, Turkey 1995-2013 (per 100 000) (Mortality rate is number of deaths divided by number of employees)

- More than half (56,2%) of occupational accident deaths occurred in the 25-44 years age groups.

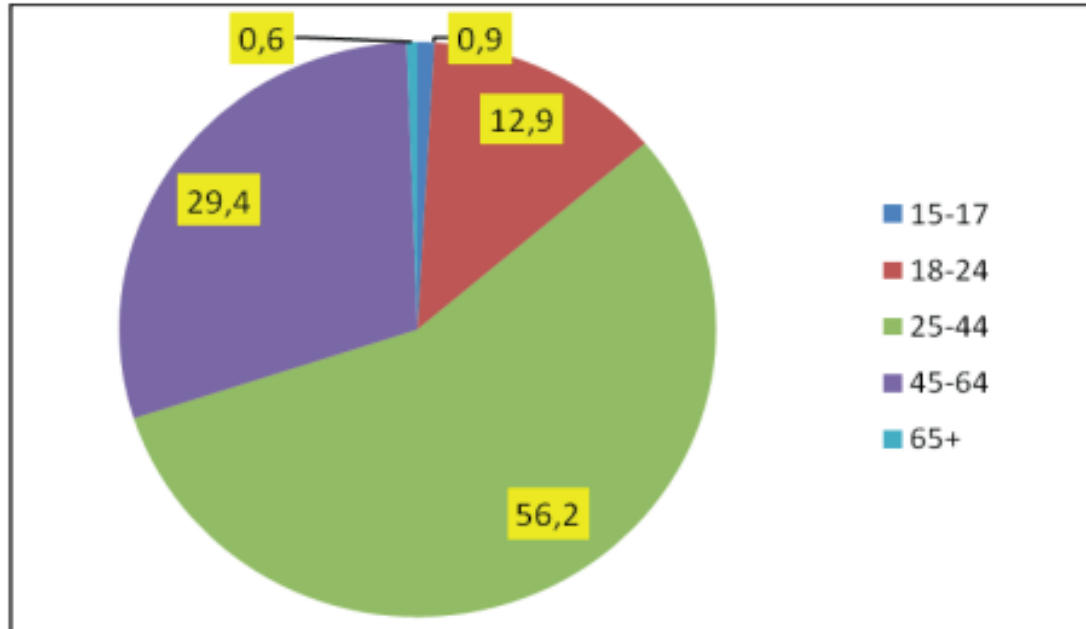


Figure . Accident deaths by age groups, Turkey, 2014

Table 13.5. Occupational accident deaths by age groups, Turkey, 2014

Age groups	Number of deaths	Percent
15-17	15	0.9%
18-24	210	12.9%
25-34	443	27.3%
35-44	470	28.9%
45-54	347	21.3%
55-64	132	8.1%
65+	9	0.6%
Total	1626	100.0%

- In terms of occupational groups, more than half (60.7%) of accident deaths occurred among unskilled workers.



- Almost one fifth (18.9 %) of accident deaths occurred in three big cities:
- İstanbul: 243,
- Ankara: 107 and
- İzmir: 64 deaths