

Kipsan Asansör Sanayi Ticaret LTD. ŞTİ.

OCCUPATIONAL HEALTH AND SAFETY RISK ASSESSMENT REPORT

School: Ankara Yildirim Beyazıt University

Lesson: Principles of Occupational Health and Safety I (ENGR-401)

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About the Firm

A) Field of Activity :

- Manufacture of automatic doors for elevators.
- Cabin manufacturing.
- Button manufacturing.
- Manufacturing of control panel.
- Suspension manufacture.

B) Number of Employees :

30 staff (including managers and administrative unit)

C) Danger Class :

Class: **Dangerous**

Business NACE Code: **28.22.10**

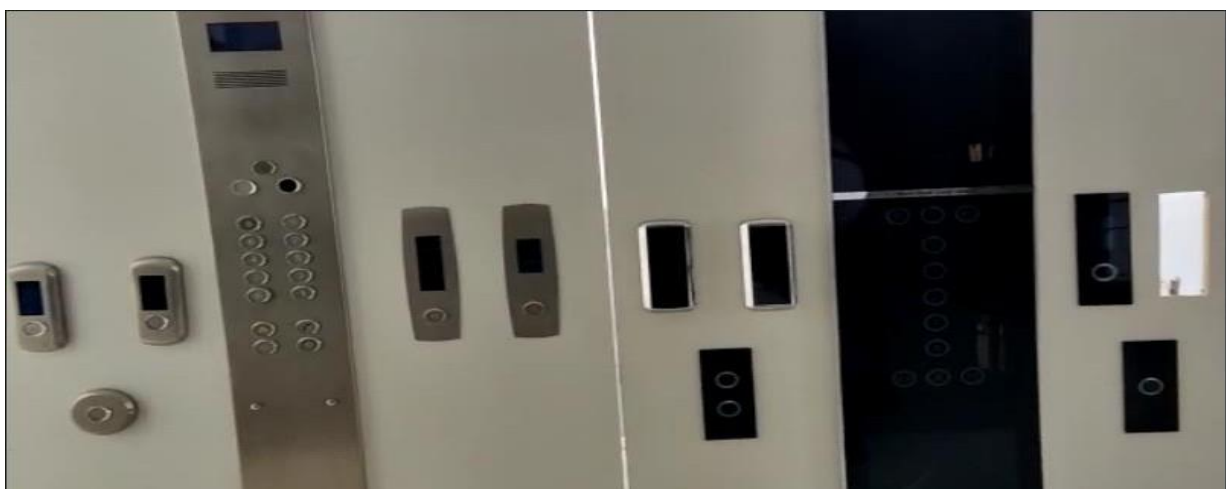
Due to:

<https://www.mevzuat.gov.tr/mevzuatmetin/yonetmelik/9.5.16909-Ek.xls>

D) Location :

Kayseri Mimar Sinan Organize Sanayi Bölgesi 13. Cadde No: 54

E) Products that produce in the factory :



Analysis

5x5 L-Matrix Method

5x5 Risk Matrix Sample

Impact
How severe would the outcomes be if the risk occurred?

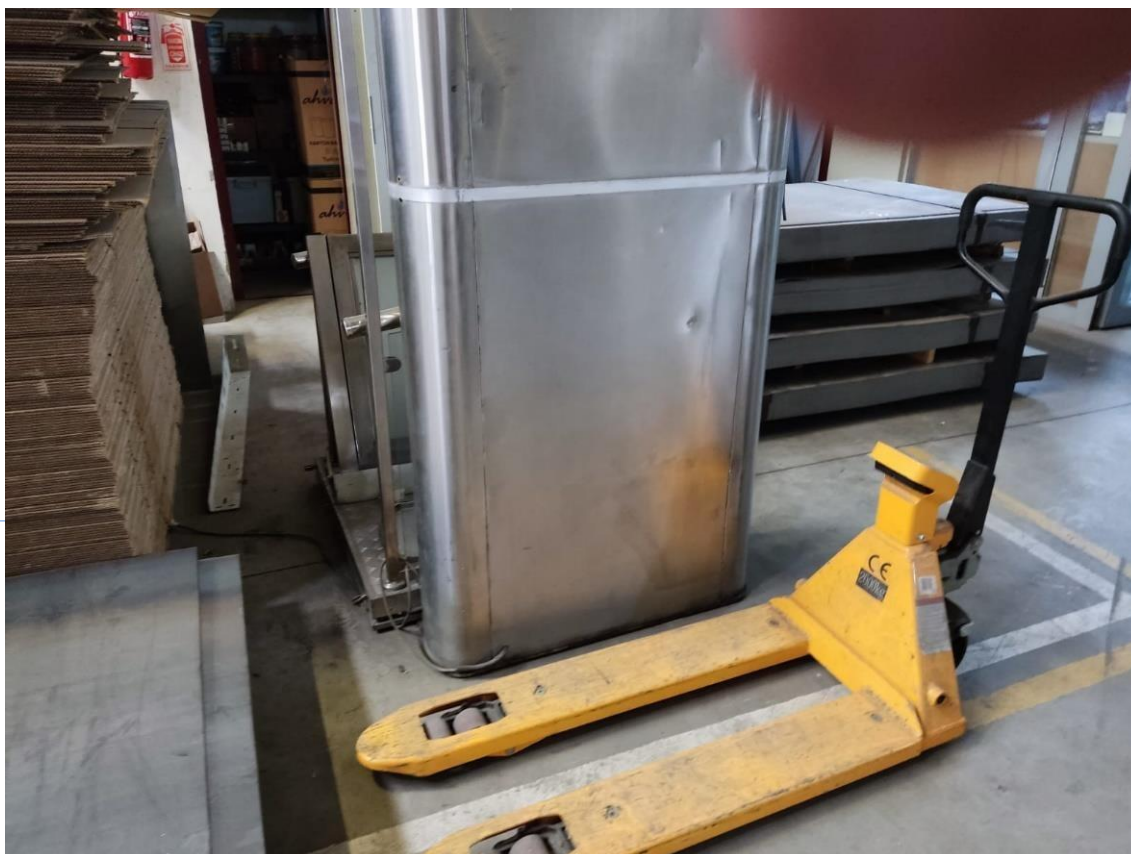
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Probability
What is the probability the risk will happen?

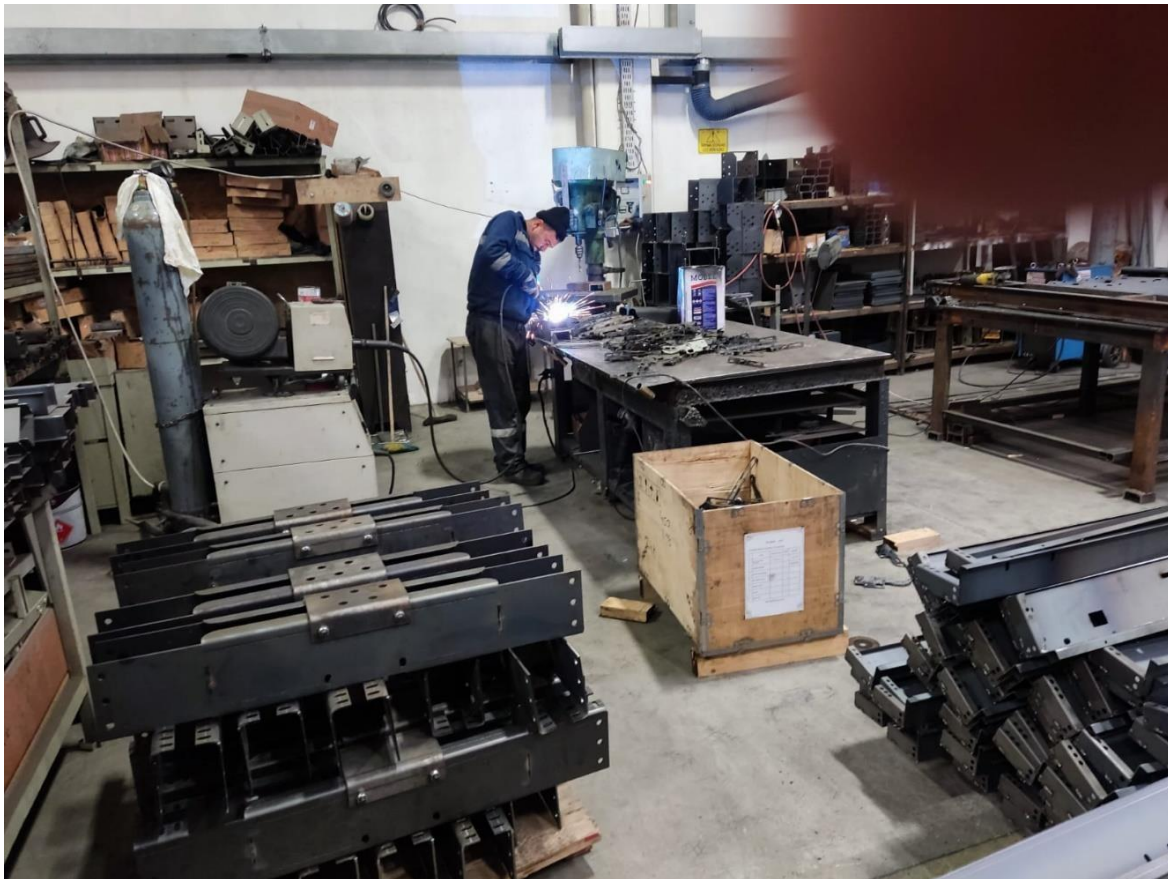
	Insignificant 1	Minor 2	Significant 3	Major 4	Severe 5
5 Almost Certain	Medium 5	High 10	Very high 15	Extreme 20	Extreme 25
4 Likely	Medium 4	Medium 8	High 12	Very high 16	Extreme 20
3 Moderate	Low 3	Medium 6	Medium 9	High 12	Very high 15
2 Unlikely	Very low 2	Low 4	Medium 6	Medium 8	High 10
1 Rare	Very low 1	Very low 2	Low 3	Medium 4	Medium 5

SafetyCulture

TOPIC		Carrying items with a pallet truck			
DANGER		Items falling of from the pallet truck			
RISK		Minor injury to employee			
RISK ANALYSIS SCORE					
PROBABILITY	IMPACT	RISK	RISK LEVEL	RESPONSIBLE STAFF	FIX TIME
3	3	9	Medium	Transport Personnel / Personnel Chef	10 Day
RISK ANALYSIS SCORE AFTER THE PRECAUTION					
Probability		Impact		Risk	Very Low
1		2		2	
PRECAUTIONS TO TAKE					
Use of personal protective equipment, Loading the material to be transported properly on the pallet truck, Training of transport personnel on the use of personal protective equipment.					



TOPIC		Welding			
DANGER		High light intensity and toxic gas resulting from welding			
RISK		Temporary visual impairment and temporary lung involvement			
RISK ANALYSIS SCORE					
PROBABILITY	IMPACT	RISK	RISK LEVEL	RESPONSIBLE STAFF	FIX TIME
3	4	12	High	Welding Master / Operations Chief	10 Day
RISK ANALYSIS SCORE AFTER THE PRECAUTION					
Probability		Impact		Risk	Very Low
1		2		2	
PRECAUTIONS TO TAKE					
The worker should use protective glasses and use a gas mask, ventilation of the environment. Training and warning the worker on this issue.					



TOPIC		Lifting large weights with a crane			
DANGER		Falling of the items due to breakage of ropes			
RISK		Loss of limb, serious injury, death			
RISK ANALYSIS SCORE					
PROBABILITY	IMPACT	RISK	RISK LEVEL	RESPONSIBLE STAFF	FIX TIME
3	5	15	Very High	Factory Manager / Crane Operator	1 Year
RISK ANALYSIS SCORE AFTER THE PRECAUTION					
Probability		Impact		Risk	Very Low
1		4		4	
PRECAUTIONS TO TAKE					
Checking the crane ropes once a year, determining the crane movement area with lines					



TOPIC		Using the laser cutting device			
DANGER		Gas leakage of the pipeline of the machine			
RISK		Poisoning, death			
RISK ANALYSIS SCORE					
PROBABILITY	IMPACT	RISK	RISK LEVEL	RESPONSIBLE STAFF	FIX TIME
3	5	15	Very High	Factory Manager / Laser Device Operator	1 Year
RISK ANALYSIS SCORE AFTER THE PRECAUTION					
Probability		Impact		Risk	Medium
1		5		5	
PRECAUTIONS TO TAKE					
Pressurized gas cylinders and pipes belonging to the machine should be checked periodically once a year and their pressures should be checked before each operation.					



TOPIC		Bending small and thick metals with a press machine			
DANGER		Worker's hand jammed under the press machine			
RISK		Loss of limb			
RISK ANALYSIS SCORE					
PROBABILITY	IMPACT	RISK	RISK LEVEL	RESPONSIBLE STAFF	FIX TIME
4	4	16	Very High	Factory Manager / Press Operator	1 Months
RISK ANALYSIS SCORE AFTER THE PRECAUTION					
Probability		Impact		Risk	LOW
1		3		3	
PRECAUTIONS TO TAKE					
Photocell and laser sensor should be connected to the machine.					



TOPIC		Usage of sheet metal punching machine			
DANGER		Sheet metal punching machine operator interfering with the machine table while the machine is running			
RISK		Hand injury			
RISK ANALYSIS SCORE					
PROBABILITY	IMPACT	RISK	RISK LEVEL	RESPONSIBLE STAFF	FIX TIME
2	3	6	Medium	Factory Manager / Operator	1 Day
RISK ANALYSIS SCORE AFTER THE PRECAUTION					
Probability		Impact		Risk	Very Low
1		1		1	
PRECAUTIONS TO TAKE					
Adding "Please do not interfere while the machine is running" warning on the machine					



TOPIC		Metal bending on the machine			
DANGER		Manual intervention while the machine is running			
RISK		Hand Injury			
RISK ANALYSIS SCORE					
PROBABILITY	IMPACT	RISK	RISK LEVEL	RESPONSIBLE STAFF	FIX TIME
2	3	6	Medium	Factory Manager / Operator	1 Day
RISK ANALYSIS SCORE AFTER THE PRECAUTION					
Probability		Impact		Risk	Very Low
1		2		2	
PRECAUTIONS TO TAKE					
Adding photocell sensor to the machine for preventing the hand injury. The operator should hold the metal towards the machine in a way that does not pose a risk.					



TOPIC		Rope cutting machine			
DANGER		Using mobile spiral in the machine			
RISK		Hand or leg injury			
RISK ANALYSIS SCORE					
PROBABILITY	IMPACT	RISK	RISK LEVEL	RESPONSIBLE STAFF	FIX TIME
4	3	12	High	Factory Manager / Operator	1 Months
RISK ANALYSIS SCORE AFTER THE PRECAUTION					
Probability		Impact		Risk	Very Low
1		1		1	
PRECAUTIONS TO TAKE					
Using a covered and mounted rope cutter.					



TOPIC		Materials position			
DANGER		Putting materials outside the specified lines			
RISK		Injury			
RISK ANALYSIS SCORE					
PROBABILITY	IMPACT	RISK	RISK LEVEL	RESPONSIBLE STAFF	FIX TIME
4	2	8	Medium	Factory Manager	1 Months
RISK ANALYSIS SCORE AFTER THE PRECAUTION					
Probability		Impact		Risk	Very Low
1		2		2	
PRECAUTIONS TO TAKE					
Training and warning the factory employees about placing materials within the determined lines.					



TOPIC		The products offered for sale are not placed on the shelves properly and there are materials that will cause them to trip and fall.			
DANGER		Stuffing or falling of materials			
RISK		Simple injury			
RISK ANALYSIS SCORE					
PROBABILITY	IMPACT	RISK	RISK LEVEL	RESPONSIBLE STAFF	FIX TIME
3	2	6	Medium	Stock Stuff	10 Days
RISK ANALYSIS SCORE AFTER THE PRECAUTION					
Probability		Impact		Risk	Very Low
1		2		2	
PRECAUTIONS TO TAKE					
Materials should be properly placed on the shelves.					



TOPIC		Usage of metal cutting machine			
DANGER		Intervention of the machine during operation.			
RISK		Injury, loss of limb			
RISK ANALYSIS SCORE					
PROBABILITY	IMPACT	RISK	RISK LEVEL	RESPONSIBLE STAFF	FIX TIME
2	4	8	Medium	Factory Manager / Operator	10 Days
RISK ANALYSIS SCORE AFTER THE PRECAUTION					
Probability		Impact		Risk	Low
1		3		4	
PRECAUTIONS TO TAKE					
Operator should use protective gloves.					

