



A Secure, Safe, and Sustainable Workplace Campaign

## A Secure, safe and sustainability campaign

**Promote Safety:** Foster a culture of safety among clients to reduce workplace incidents and enhance employee well-being.

**Strengthen Client Relationships:** Build trust and long-term partnerships by demonstrating RAKEZ's commitment to client safety and sustainability concerns.

**Opportunity to explore safe, sustainable and cost-effective solutions for the business operation**

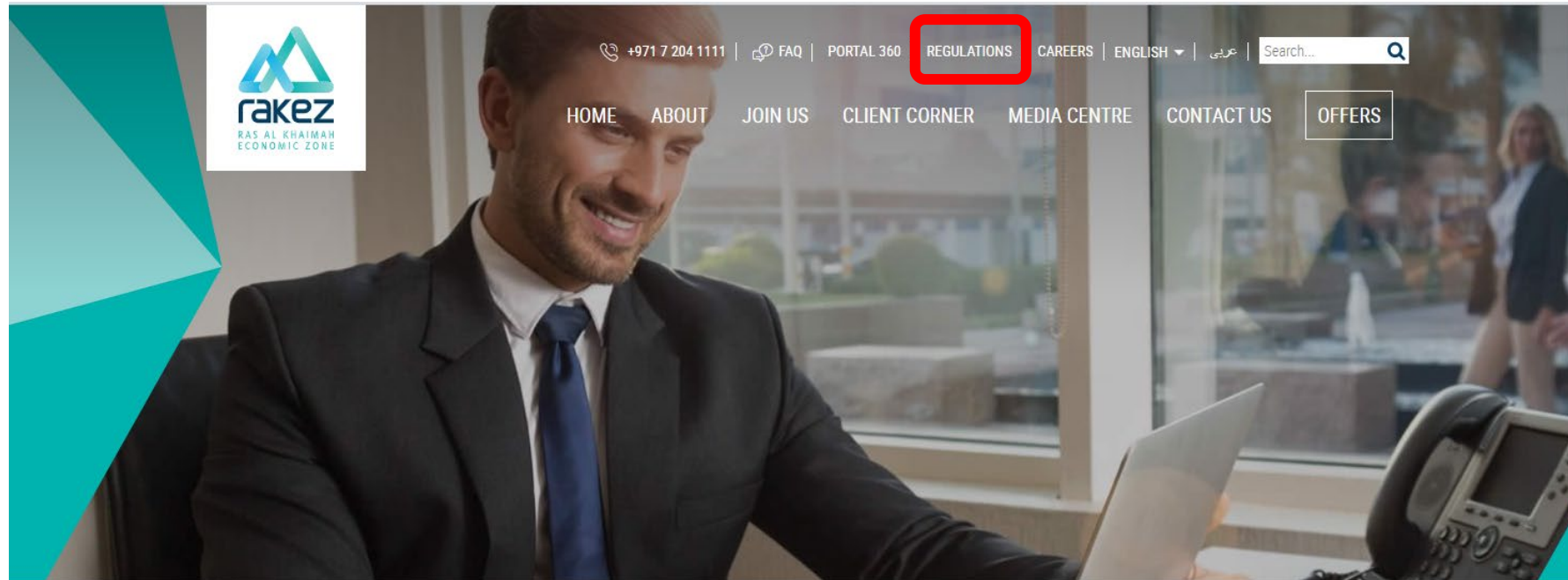
# Steps For Accessing List Of RAKEZ Registered Consultants



List can be downloaded from [www.rakez.com](http://www.rakez.com)



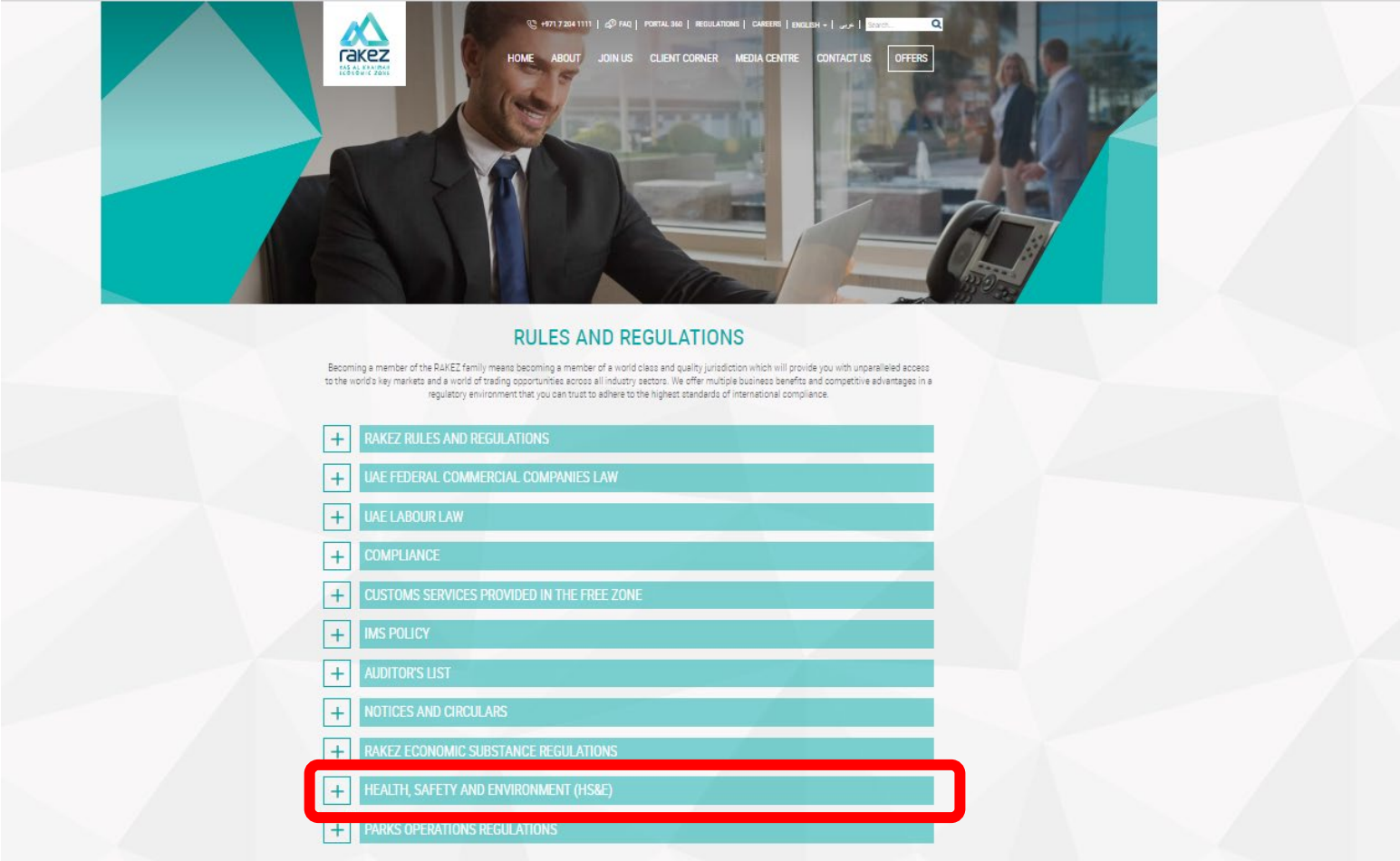
# CLICK ON REGULATIONS



## RULES AND REGULATIONS

Becoming a member of the RAKEZ family means becoming a member of a world class and quality jurisdiction which will provide you with unparalleled access to the world's key markets and a world of trading opportunities across all industry sectors. We offer multiple business benefits and competitive advantages in a regulatory environment that you can trust to adhere to the highest standards of international compliance.

# CLICK ON HEALTH, SAFETY AND ENVIRONMENT (HS&E)



**RAKEZ**  
رأس الخيمة  
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## RULES AND REGULATIONS


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- + RAKEZ RULES AND REGULATIONS
- + UAE FEDERAL COMMERCIAL COMPANIES LAW
- + UAE LABOUR LAW
- + COMPLIANCE
- + CUSTOMS SERVICES PROVIDED IN THE FREE ZONE
- + IMS POLICY
- + AUDITOR'S LIST
- + NOTICES AND CIRCULARS
- + RAKEZ ECONOMIC SUBSTANCE REGULATIONS
- + HEALTH, SAFETY AND ENVIRONMENT (HS&E)**
- + PARKS OPERATIONS REGULATIONS

# CLICK ON RAKEZ REGISTERED THIRD PARTY CONSULTANTS



— HEALTH, SAFETY AND ENVIRONMENT (HS&E)

HS&E Service Fees 

- + OPERATION FITNESS CERTIFICATE
- + HS&E NO OBJECTION CERTIFICATE (NOC)
- + PRE-QUALIFICATION FOR HS&E THIRD PARTY
- + INCIDENT NOTIFICATION FORM
- + RAKEZ REGISTERED THIRD PARTY CONSULTANTS**
- + HEALTH AND SAFETY GUIDELINES
- + HEALTH AND SAFETY AWARENESS POSTERS

CLICK ON DOWNLOAD BUTTON TO GET THE LIST

☐ RAKEZ REGISTERED THIRD PARTY CONSULTANTS

RAKEZ Registered List of Consultants for Training and Certification



RAKEZ Registered List of Consultants for Testing & Certification



RAKEZ Registered List of Consultants for Process Auditing



RAKEZ Registered List of Consultants for Risk Assessment Study



# LIFE LINE SAFETY CONSULTANCY



## ADVANCED RISK ASSESSMENT AND MANAGEMENT

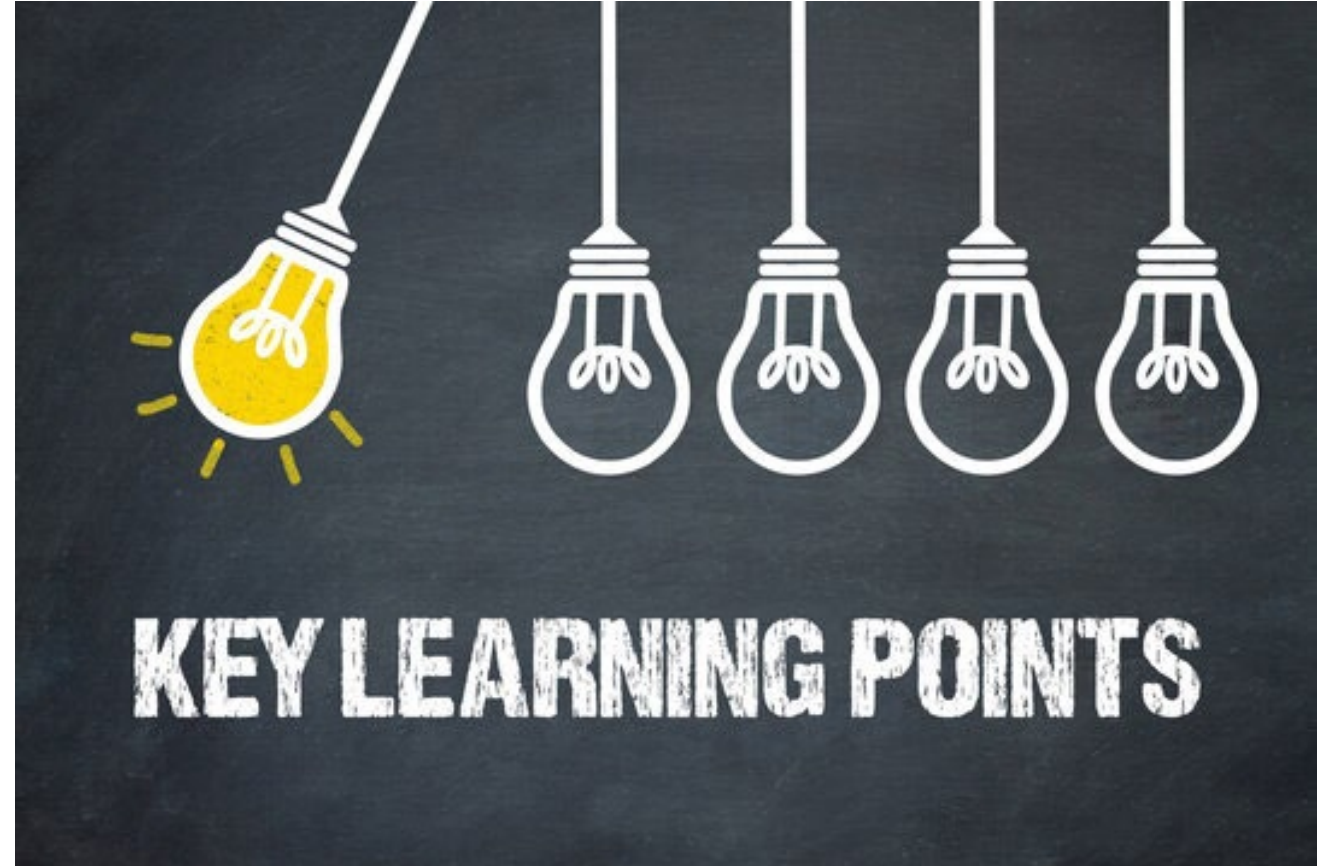
[www.lifelinegcc.com](http://www.lifelinegcc.com) , [admin@lifelinegcc.com](mailto:admin@lifelinegcc.com)

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# KEY LEARNING POINTS

- Regulatory Compliance & Use of Guidance and Legal Standards
- Risk Management & Risk Profiling
- Risk Assessment & Purpose
- The Five Steps to Risk Assessment
- Step 1: Identify the Hazards
- Step 2: Identify the People at Risk
- Step 3: Evaluating the Risk and Deciding on Precautions
- General Hierarchy of Control
- Step 4: Record Significant Findings and Implementing
- Step 5: Review Of Risk Assessment
- Various Advanced Risk assessment, Risk Analysis methods
- Hazard Identification (HAZID)
- Hazard Operability (HAZOP)
- Comparison on HAZID & HAZOP
- Fault Tree Analysis (FTA)



# Meet The Trainer: **Jayakrishnan TK**



**GARDUATE IN PHYSICS & ENGINEERING DIPLOMA HOLDER**

**ADVANCE DIPLOMA IN OCCUPATIONAL HEALTH AND SAFETY(IASP) USA**

**INTERNATIONAL AWARD IN DELIVERING THE CERTIFICATE(IADT) LEVEL 3**

**DIPLOMA IN FIRE AND INDUSTRIAL SAFETY**

**NEBOSH IGC LEVEL-3**

**IDIPOSH LEVEL-6**

**HABC LEVEL 3 INSTRUCTOR**

**HSI LEVEL 2 INSTRUCTOR**

**IOSH MANAGING SAFETY**

**HABC FIRST AIDER LEVEL 3**

**DCAS (DUBAI CORPORATION FOR AMBULANCE SERVICES)**

**EIAC APPROVED (DUBAI MUNICIPALITY)**



# Regulatory Compliance & Use of Guidance and Legal Standards

- It enhances compliance with existing Federal, Local, Ministerial and other laws/regulations, in accordance with Decree-Federal Law No.2 of 2011, Articles 21 and 22;
- Occupational Safety and Health Act 1974
- Occupational Safety & Health Regulations 1996
- Occupational Safety & Health Regulations 1996
- Penal Code (Federal Law 3 of 1987)
- Labour Law (Federal Law 8 of 1980)
- Protection of Workers from Hazardous Works (Ministerial Decision 4/1 of 1981)
- Working in Remote Areas (Ministerial Decision 27/1 of 1981)
- Employee Penalty Guidelines (Ministerial Decision 28/1 of 1981)
- Prevention of Hazards at Work (Ministerial Decision 32 of 1982)
- Standards of Medical Case (Ministerial Decision 37/2 of 1982)



- Use of a risk matrix can help provide clarity:
  - Can set internal risk levels that require action within set timescales.
- Legal requirements override the findings of a risk assessment:
  - Even if the risk is low, if the law requires it then it must be done.
  - Applies also to semi-legal codes of practice.
  - Guidance can also assist.



## Article 342 - Death

*“Shall be punishable...**any individual** who, by his fault, causes the **death** of another person. The punishment shall be...if the crime was committed as a result of the offenders failure to perform the duties imposed on him by the principles of his function, profession or craft, or if the offender was...in a state of drunkenness or narcotisation, or if he refrained, at that moment, from helping the victim or asking for the victims help in spite of the fact that he was capable of doing so...”*

### **Punishment is:**

a fine (no amount specified); and  
imprisonment for a minimum of 1year if 1person dies (3-7 years if more than 3 deaths occur); and  
*Diya* (blood money) also payable –AED200,000

## Risk Management

**Definition:** Risk management is a systematic process for identifying, assessing, and mitigating risks within an organization. It aims to prevent harm to employees, assets, and the environment.

**Focus:** Risk management primarily deals with specific hazards and risks associated with day-to-day activities or processes within the workplace.

## Risk Profiling

**Definition:** Risk profiling is a broader activity that assesses risks at a higher level, considering the overall business context and strategic objectives

**Focus:** It looks beyond specific workplace activities and considers organizational risks, including strategic, financial, and external factors



# Risk Assessment

The formal process of identifying preventive and protective measures by evaluating the risks arising from a hazards, taking into account the adequacy of any existing controls, and deciding whether or not the risk is acceptable.

## Purpose of Risk Assessment

To prevent:

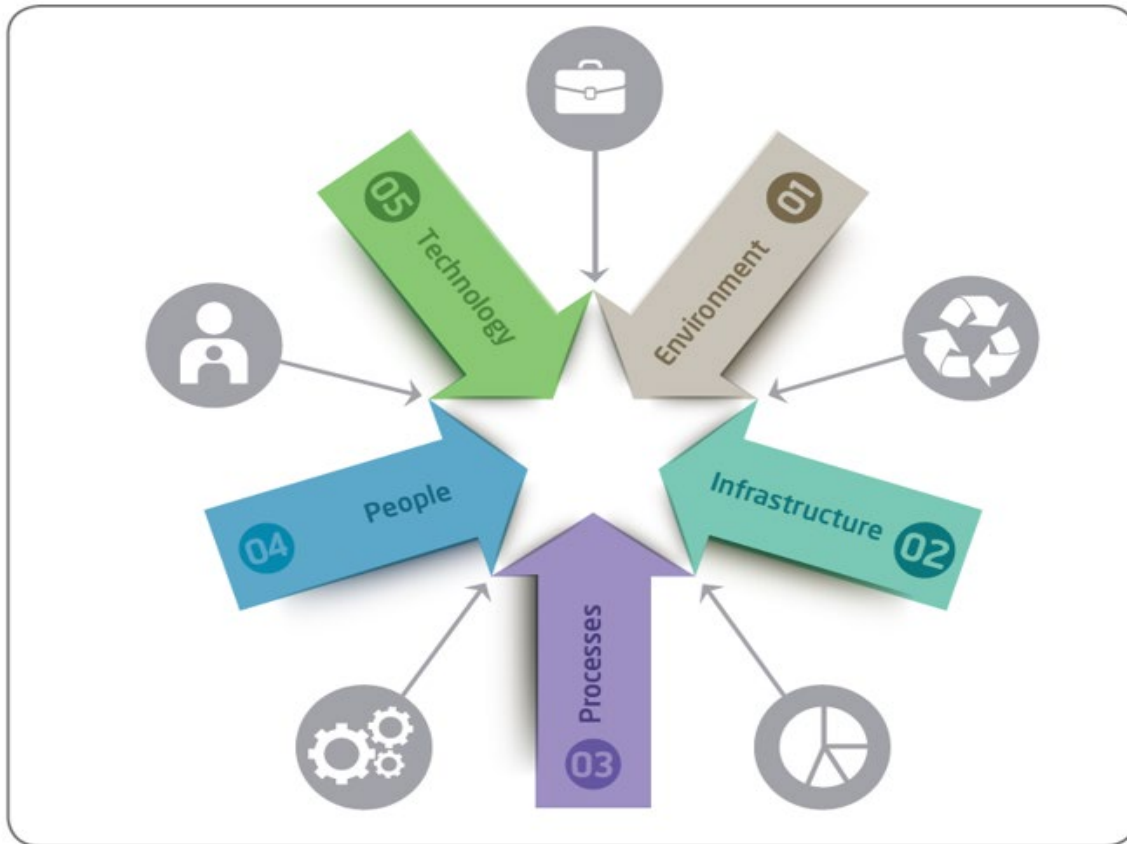
- Death and personal injury.
- Other types of loss incident.
- Breaches of statute law.
- The costs of loss.



# The Five Steps to Risk Assessment



# Step 1: Identify the Hazards



## Hazard Identification Methods

- **Task analysis:**
  - Analyses job components before the job starts.
- **Legislation:**
  - Standards, guidance documents.
- **Manufacturers' information:**
  - Operating handbooks, chemical safety data sheets.
- **Incident data:**
  - Accidents, near misses, ill health.

### Task analysis:

Select the task → Record the stages of the task → Evaluate risks associated with each stage → Develop the safe working method → Implement the safe working method → Monitor to ensure effectiveness.

## Step 2: Identify the People at Risk

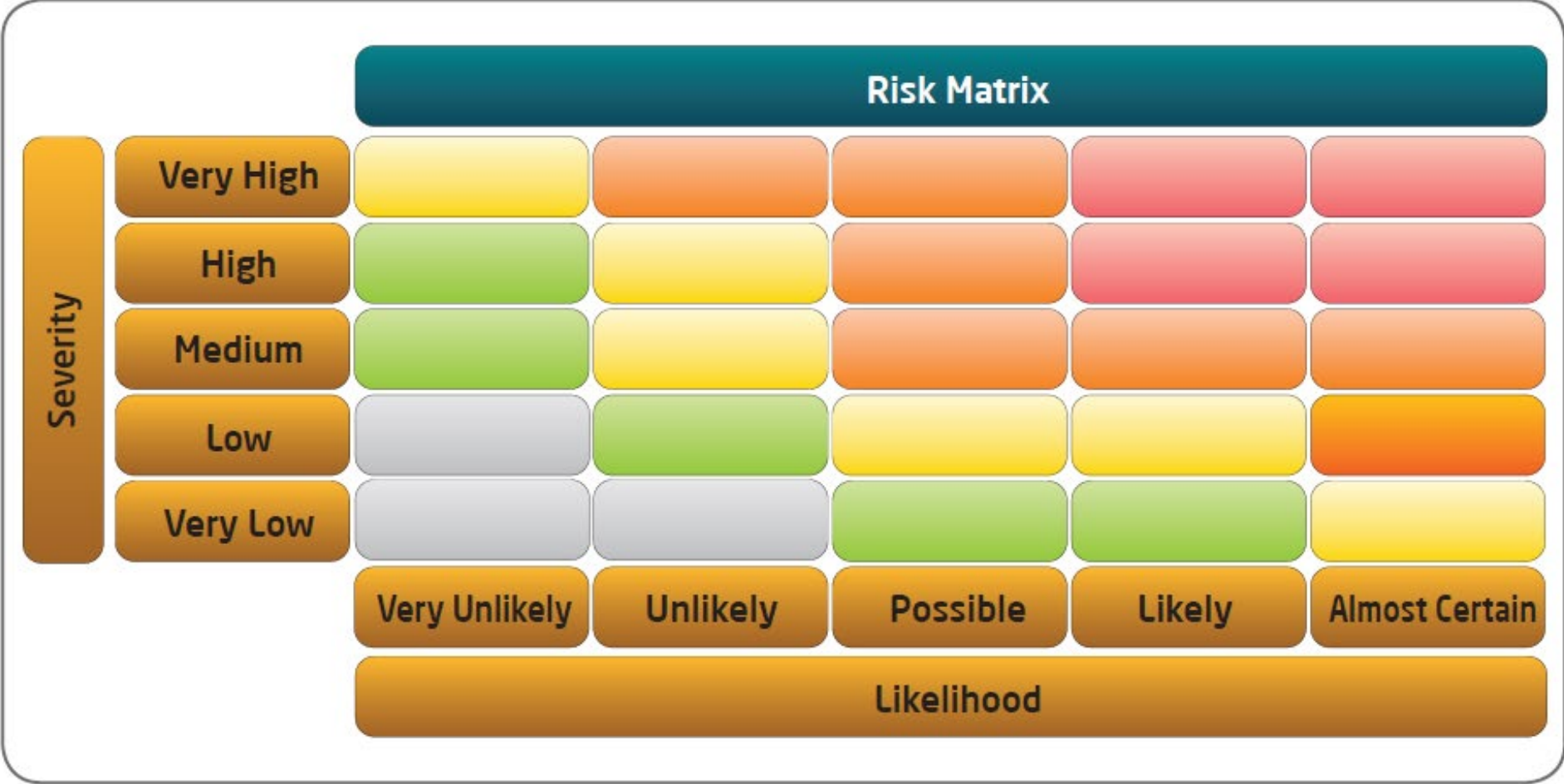
- **Workers/operators:**  
Maintenance staff.  
Cleaners.
- **Contractors.**
- **Visitors.**
- **Members of the public - even trespassers.**



## Step 3: Evaluating the Risk and Deciding on Precautions

$$\text{Risk} = \text{likelihood} \times \text{severity}$$

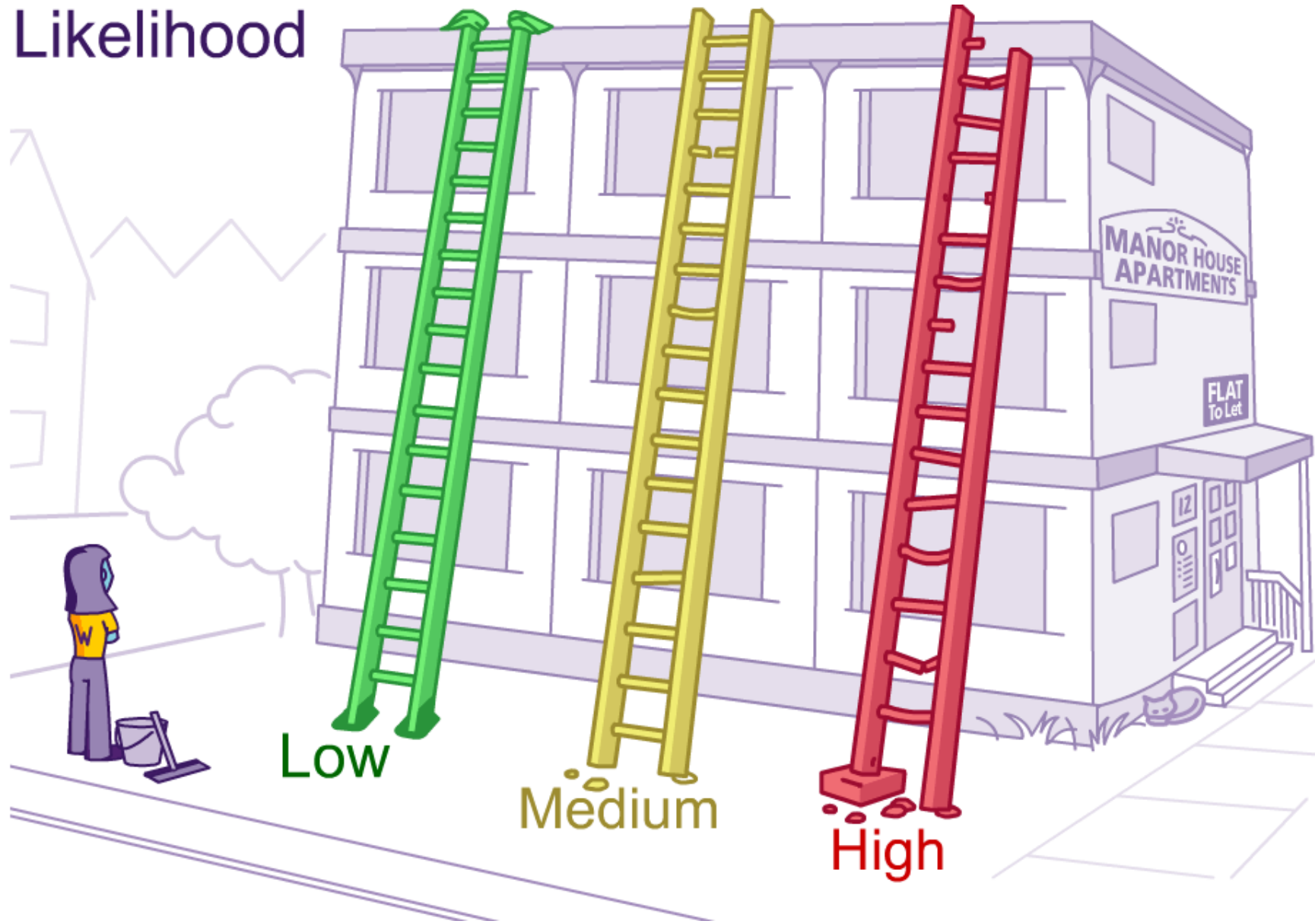
# RISK MATRIX



# Likelihood

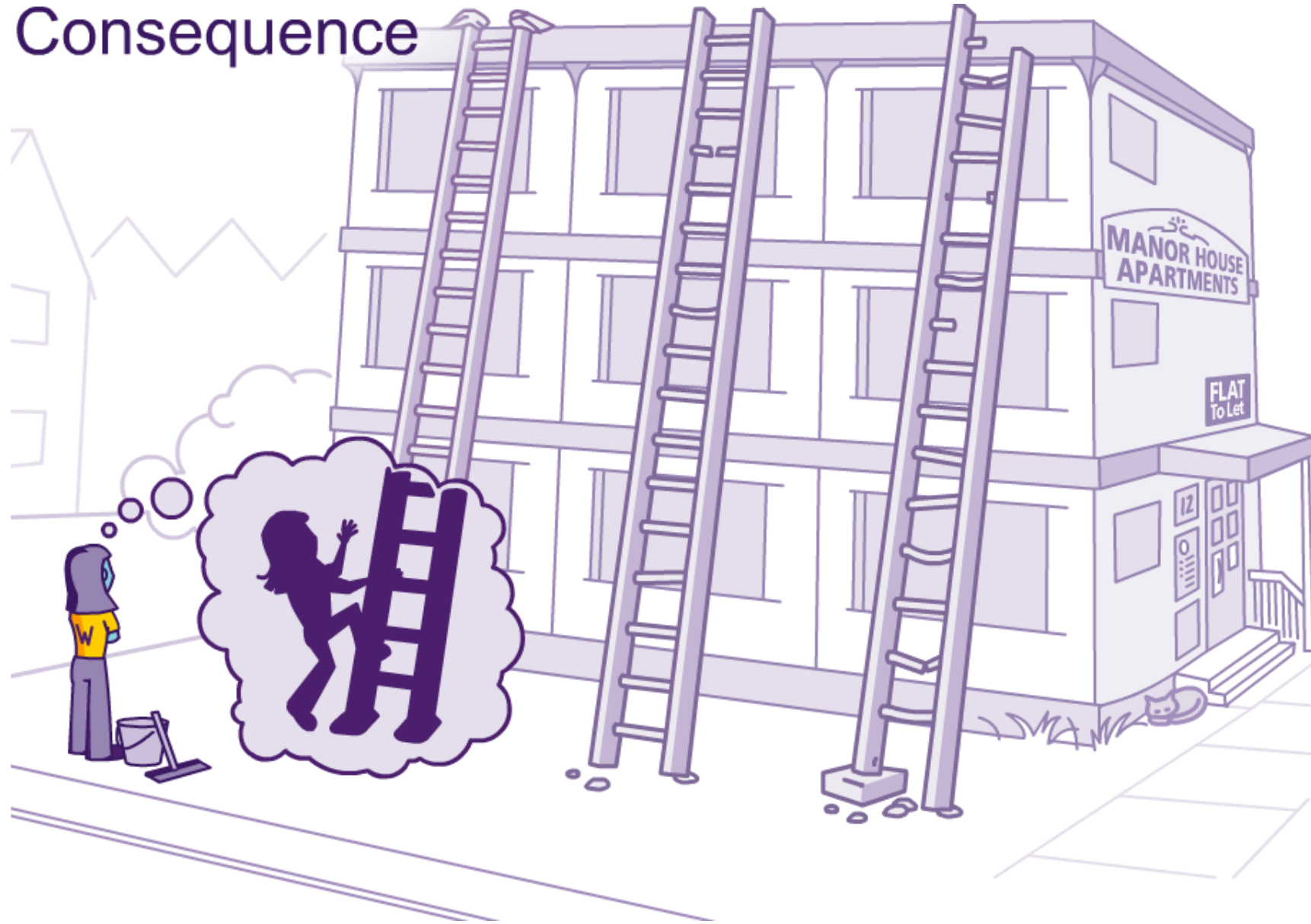


# Likelihood

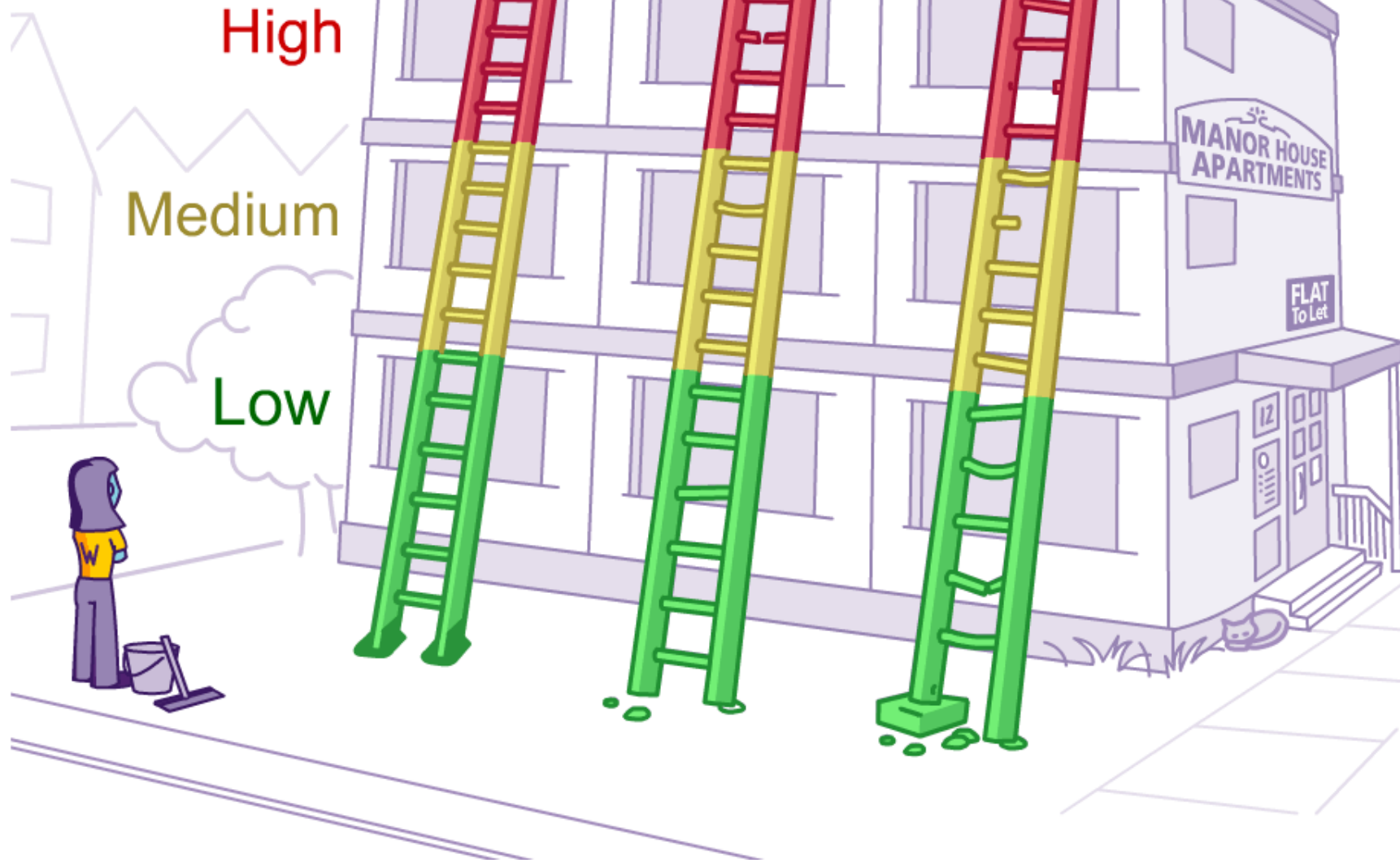




# Consequence

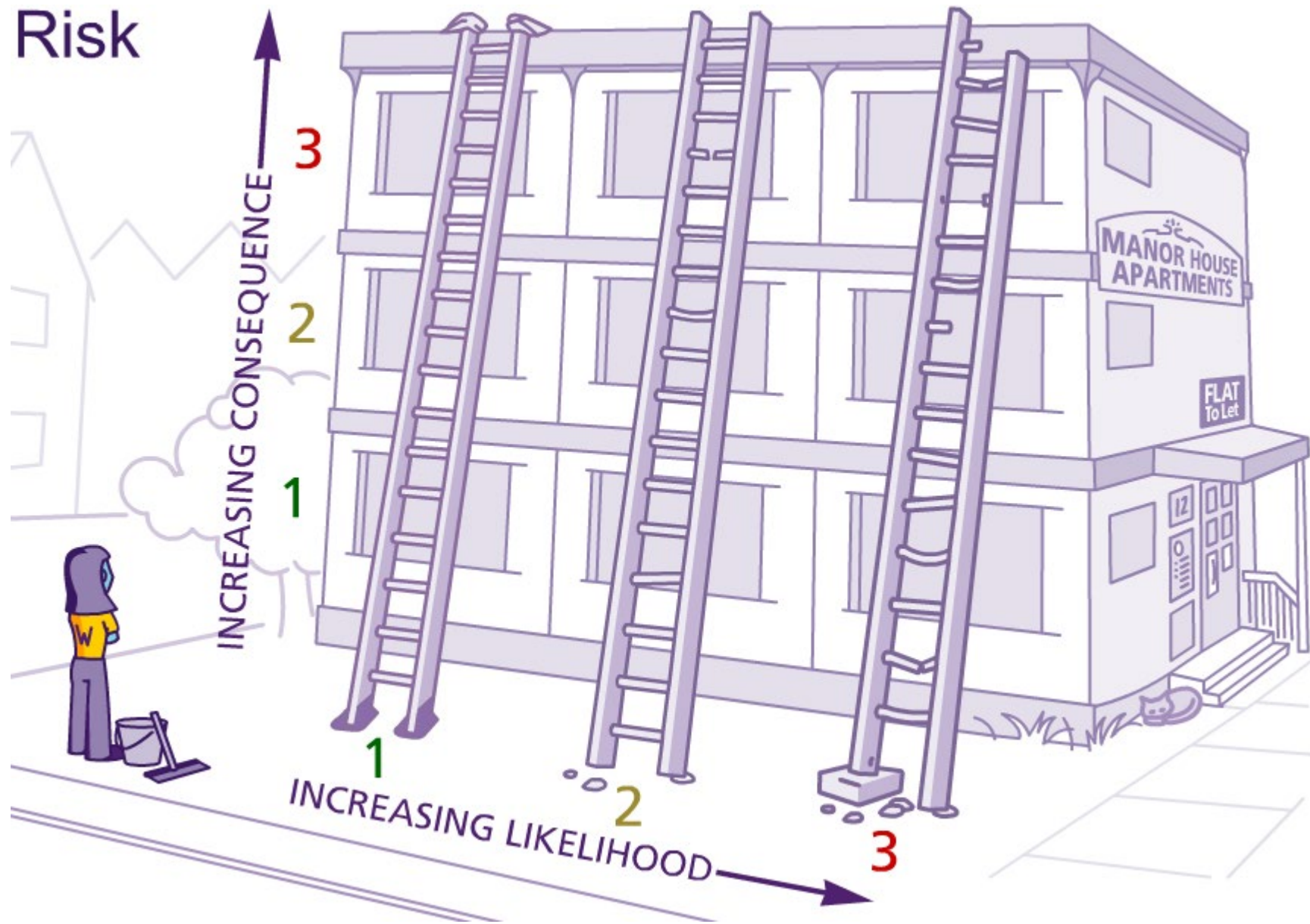


# Consequence

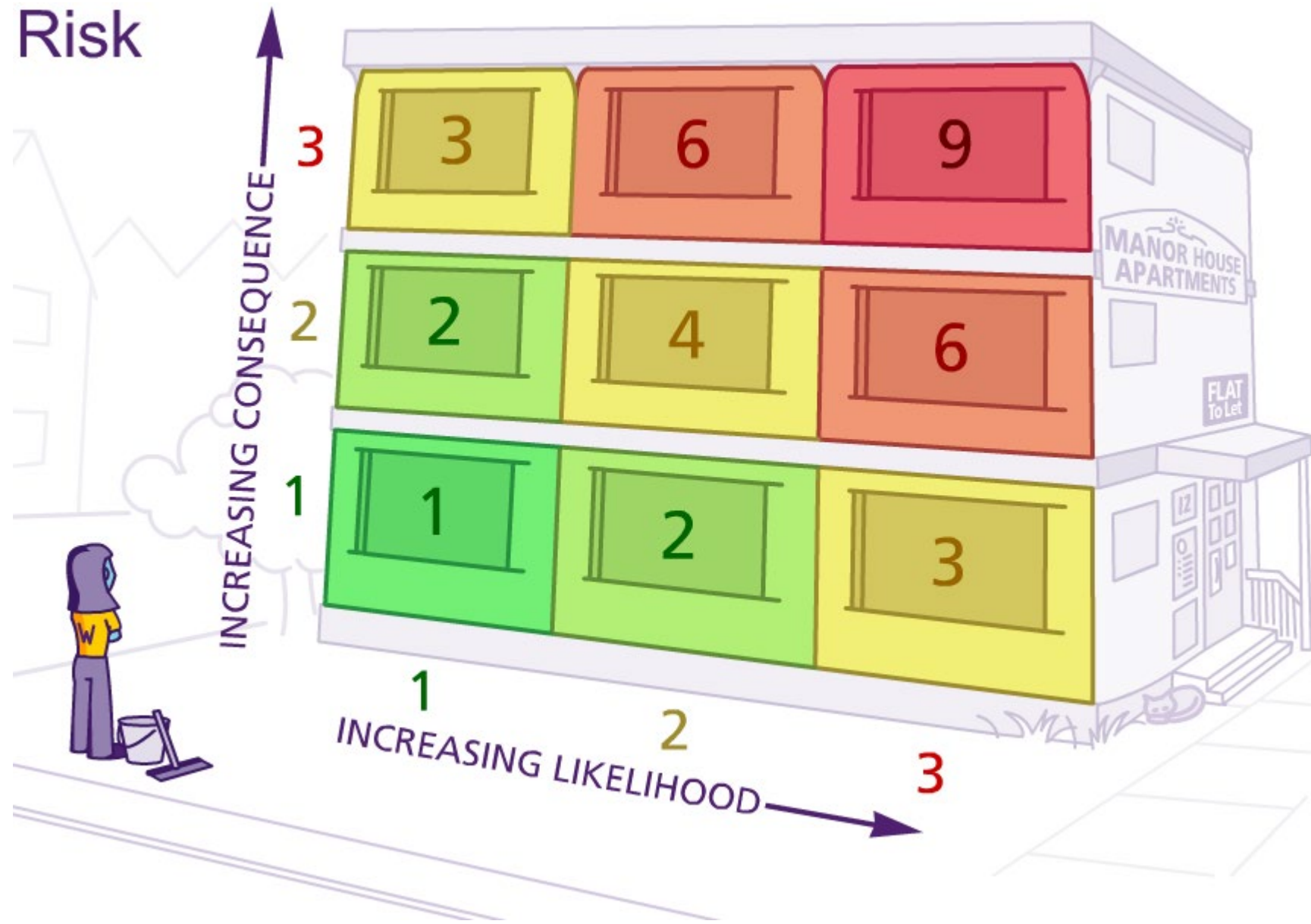




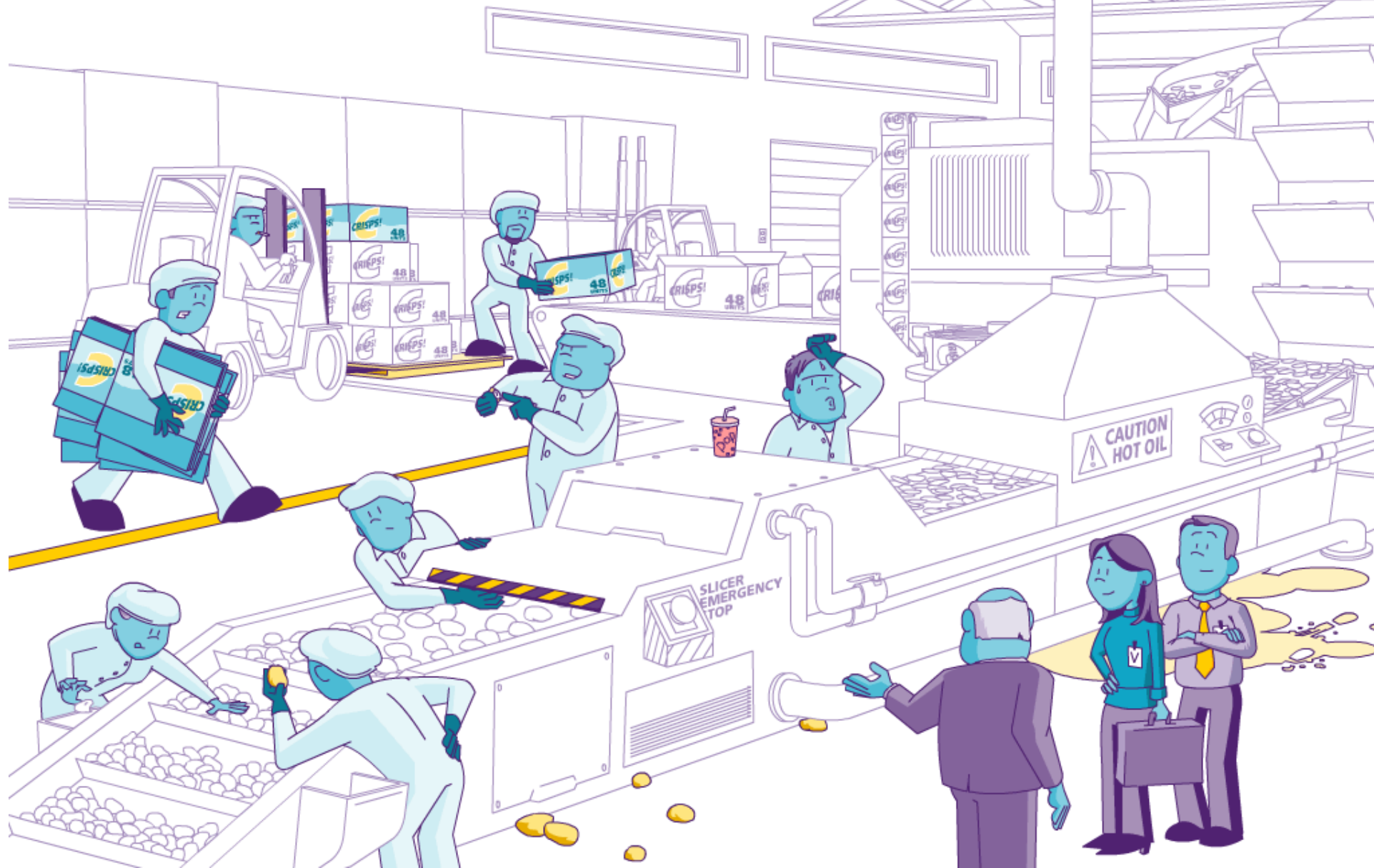
# Risk



# Risk



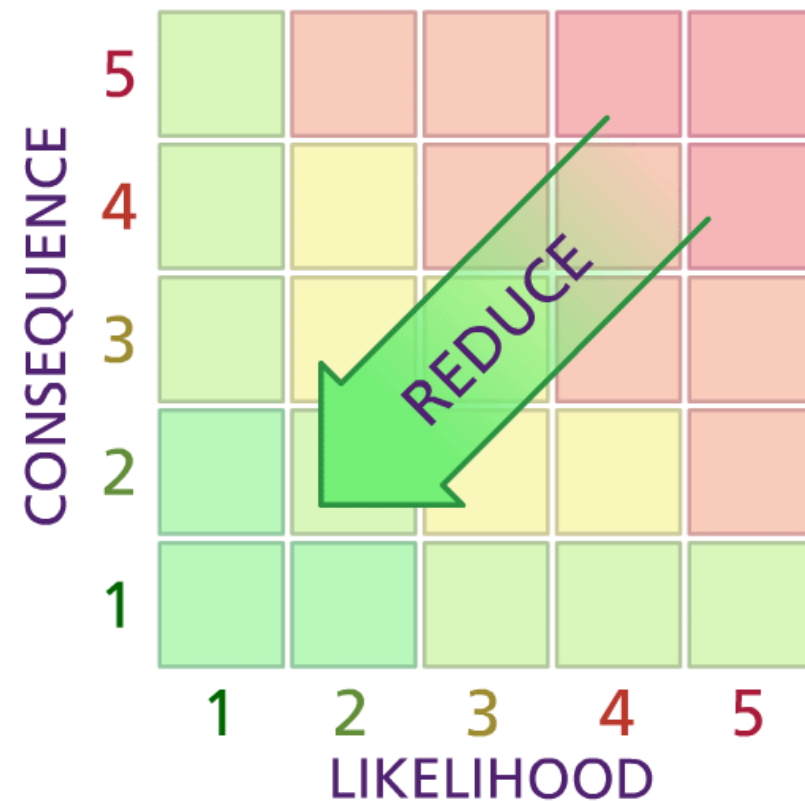
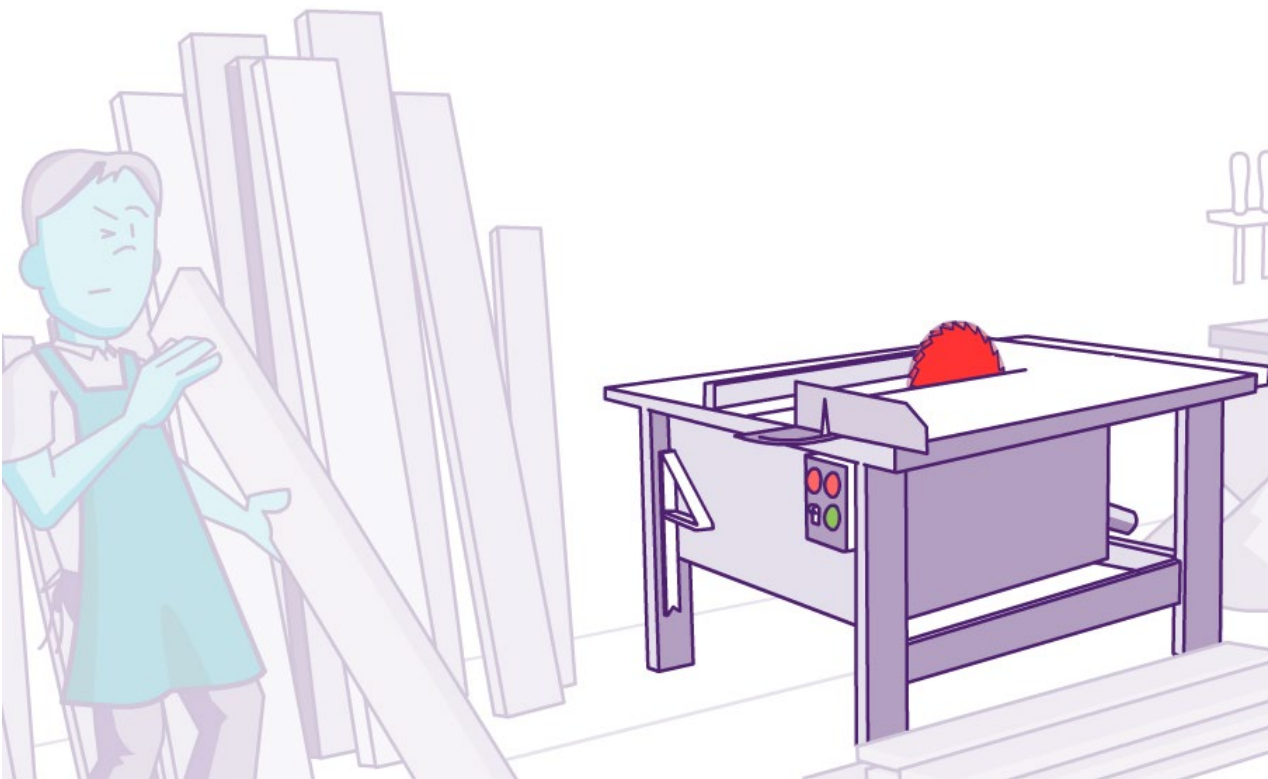


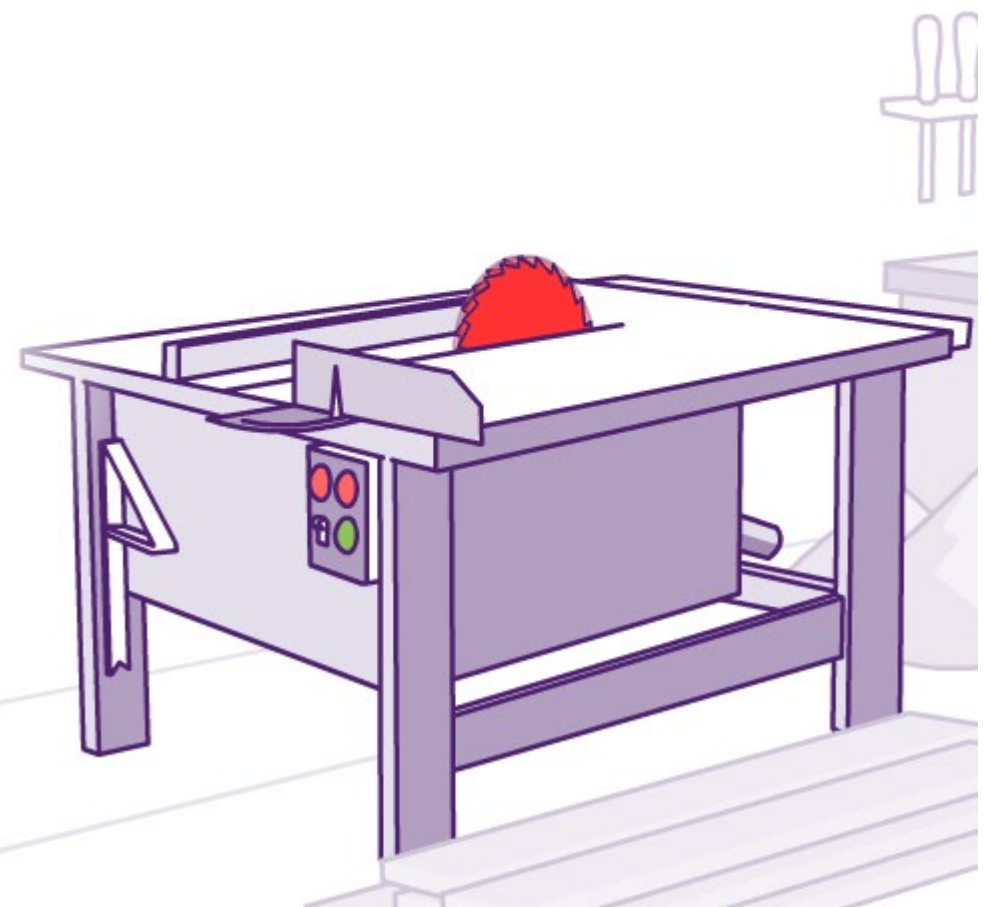
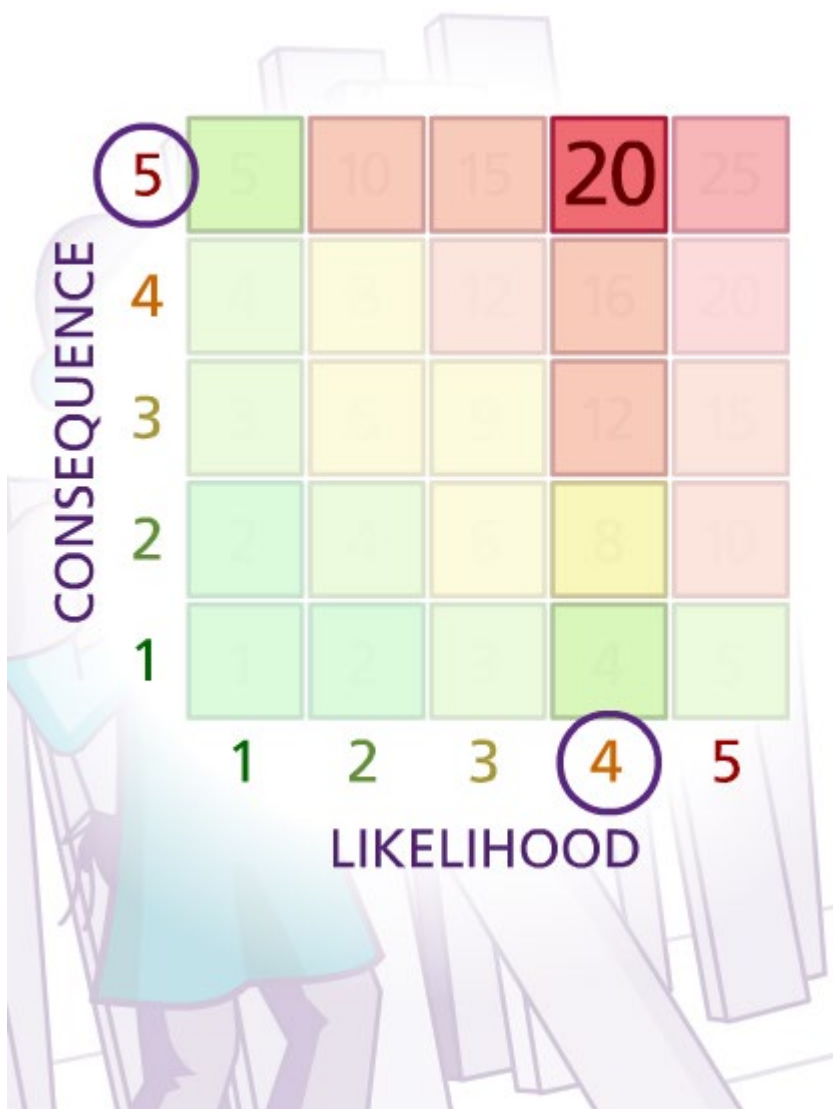


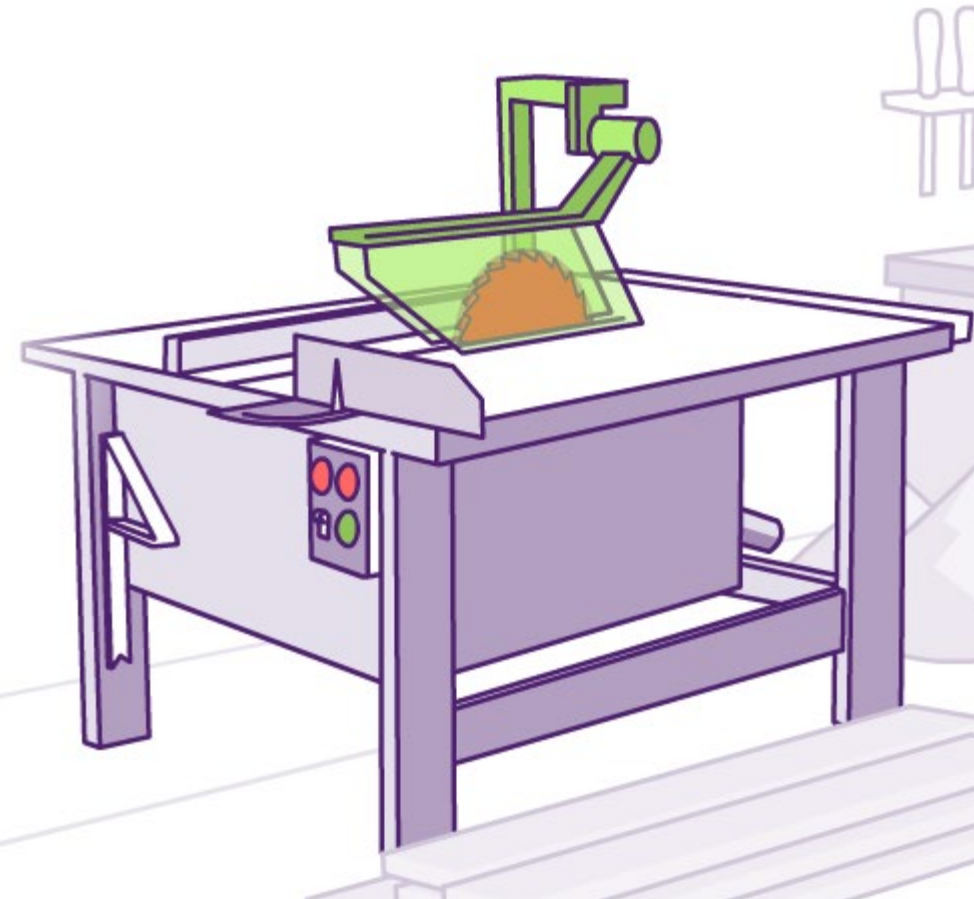
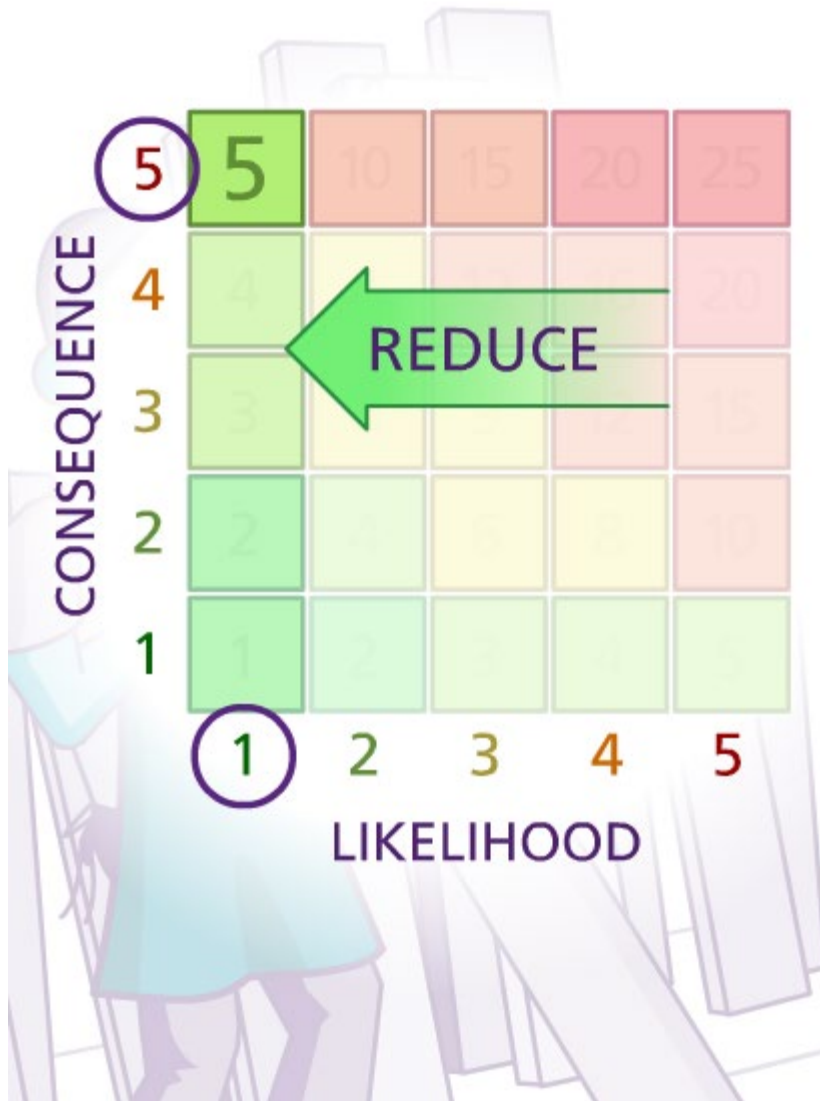


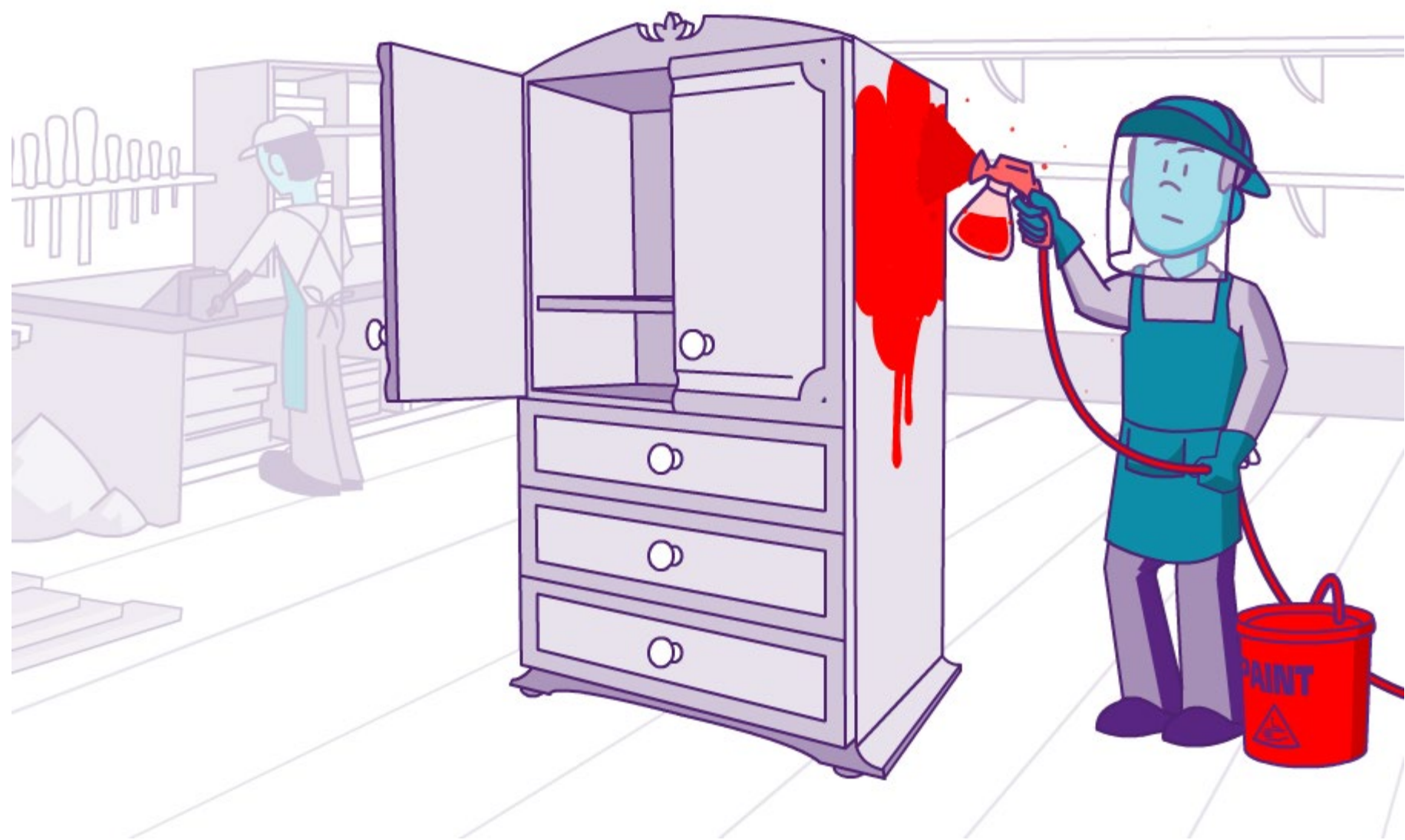
## If you want to reduce the risk, you'll need to:

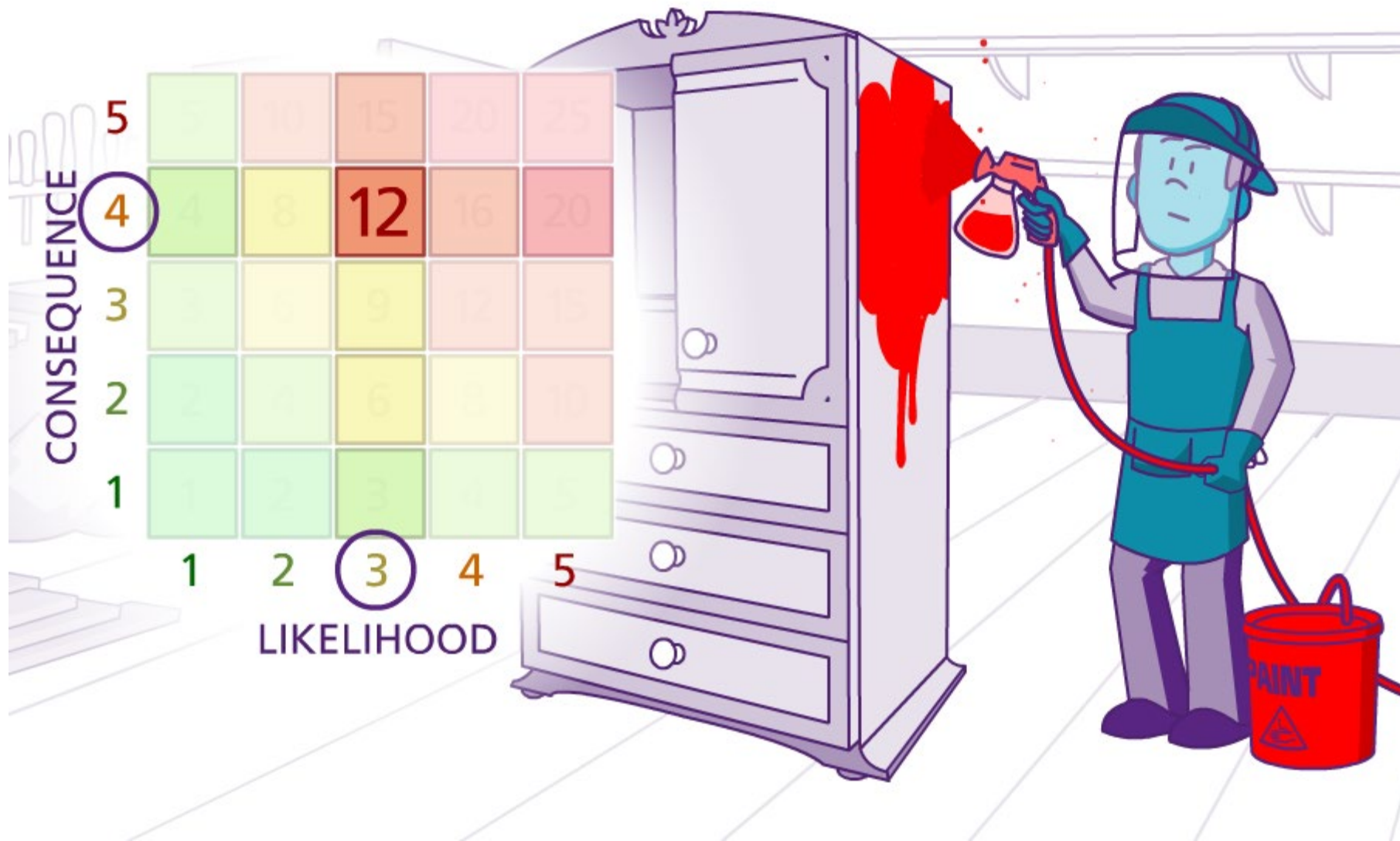
- reduce likelihood
- reduce consequence
- reduce both

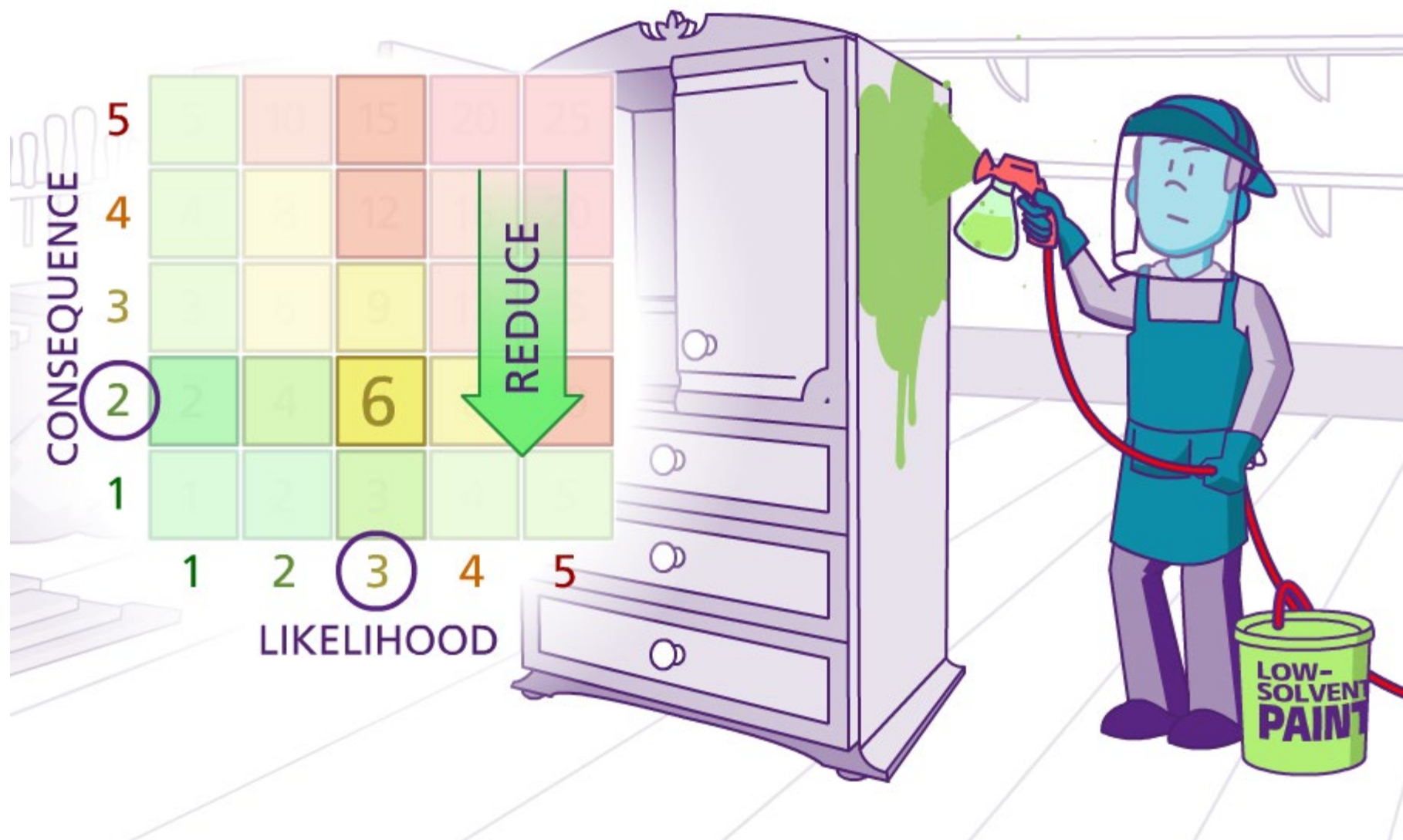




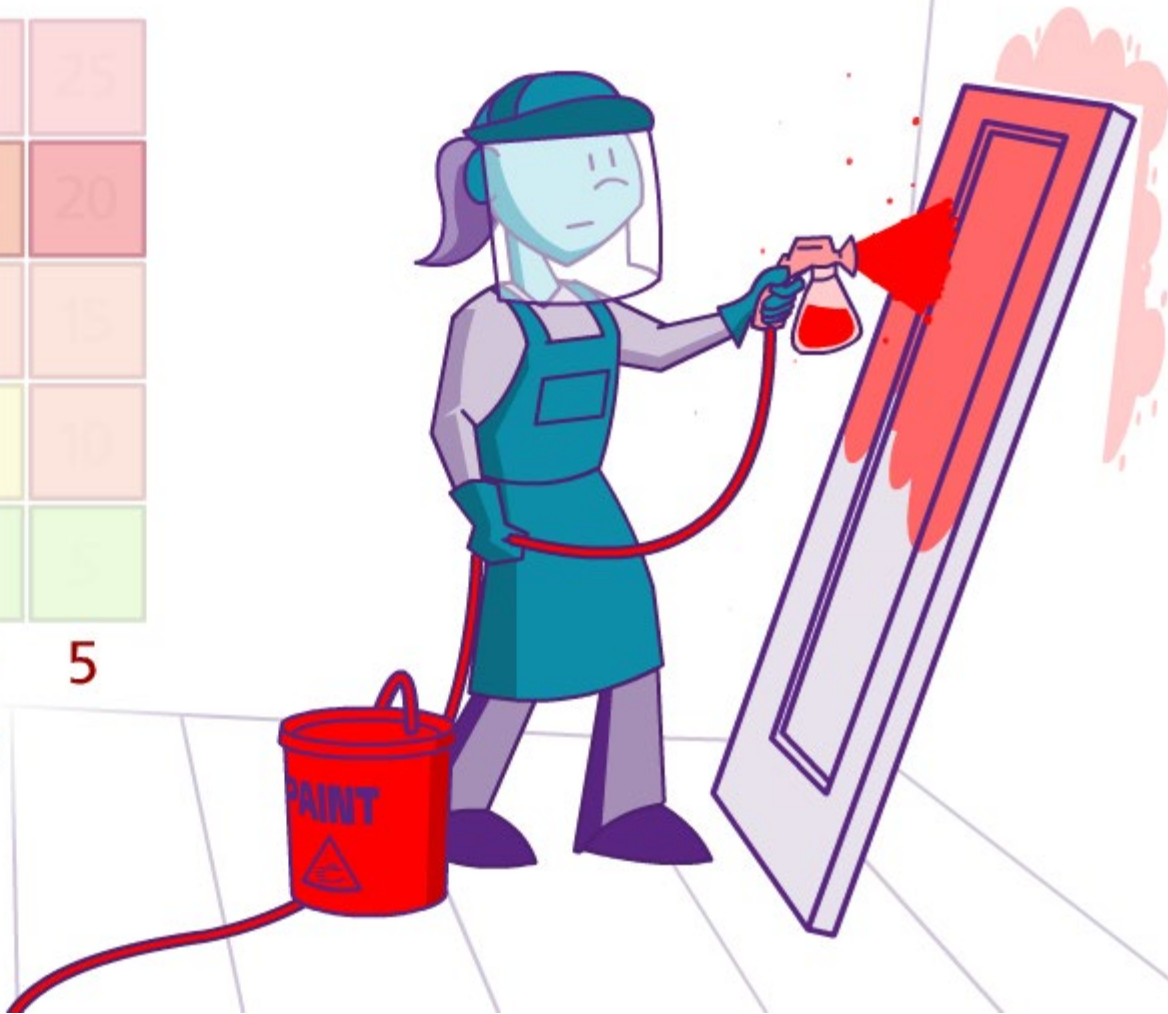
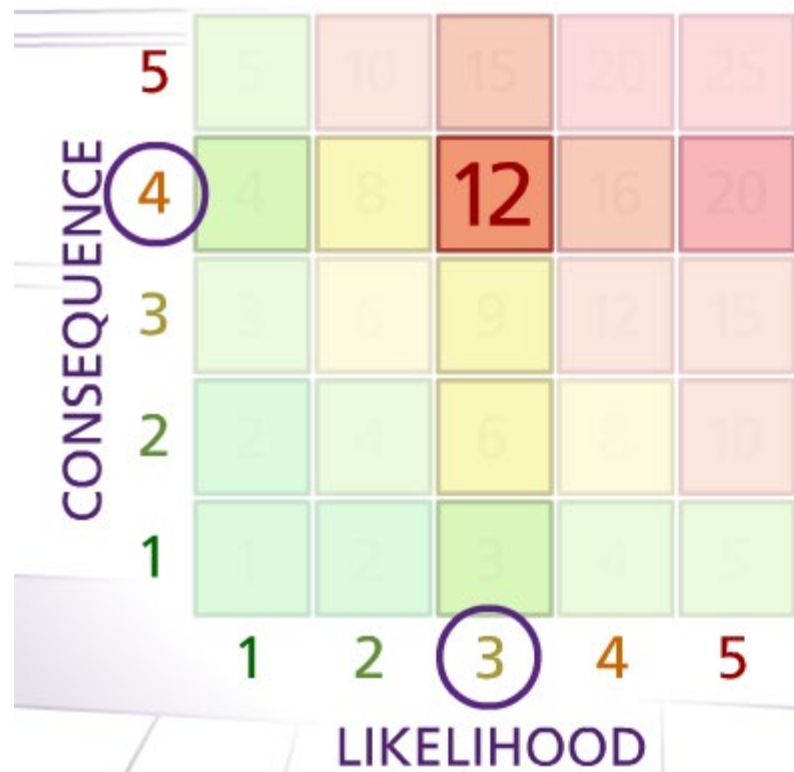


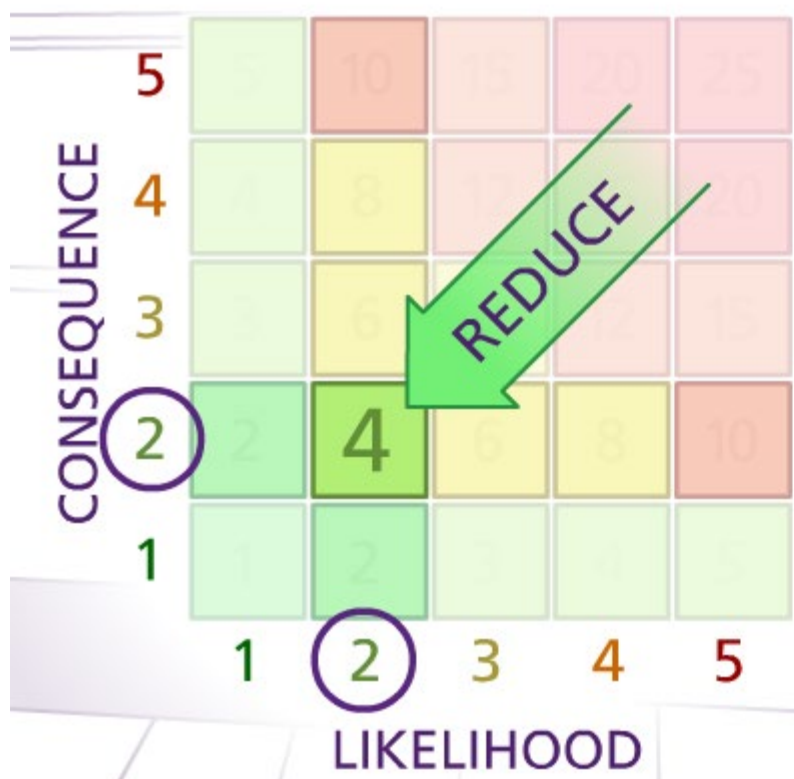




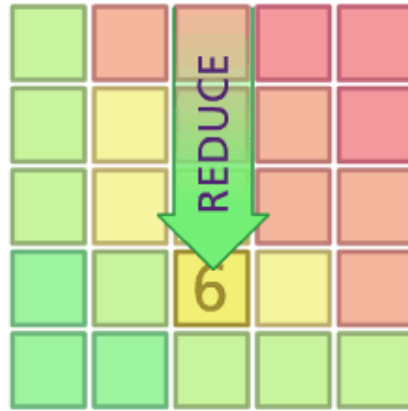
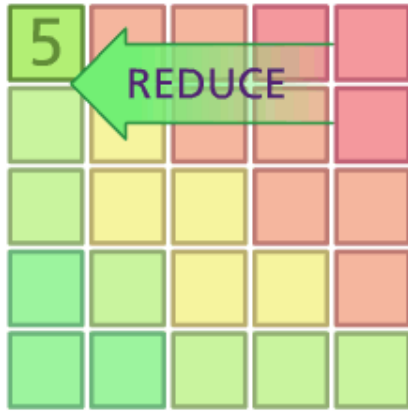
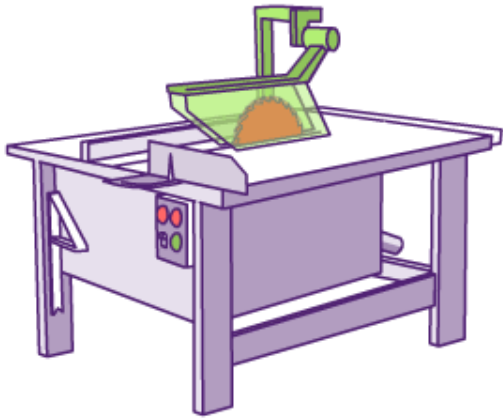








Any risk that remains after controls have been implemented is called residual risk



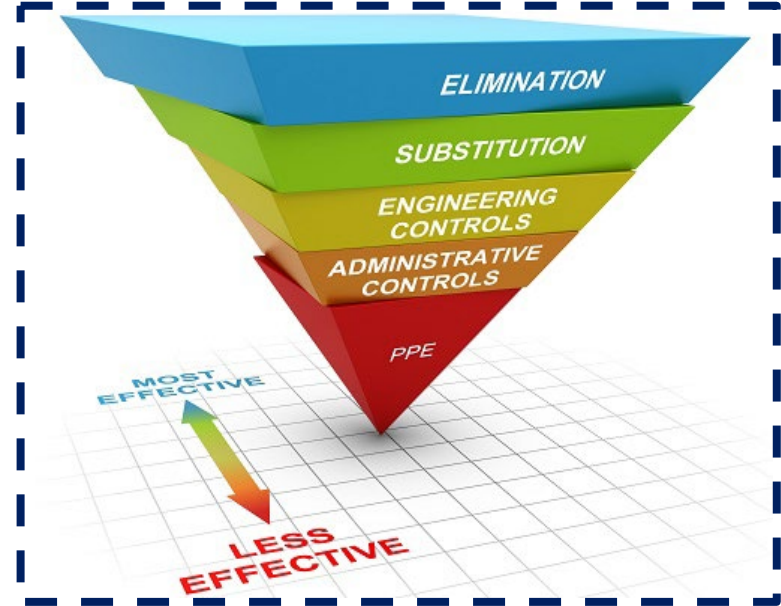
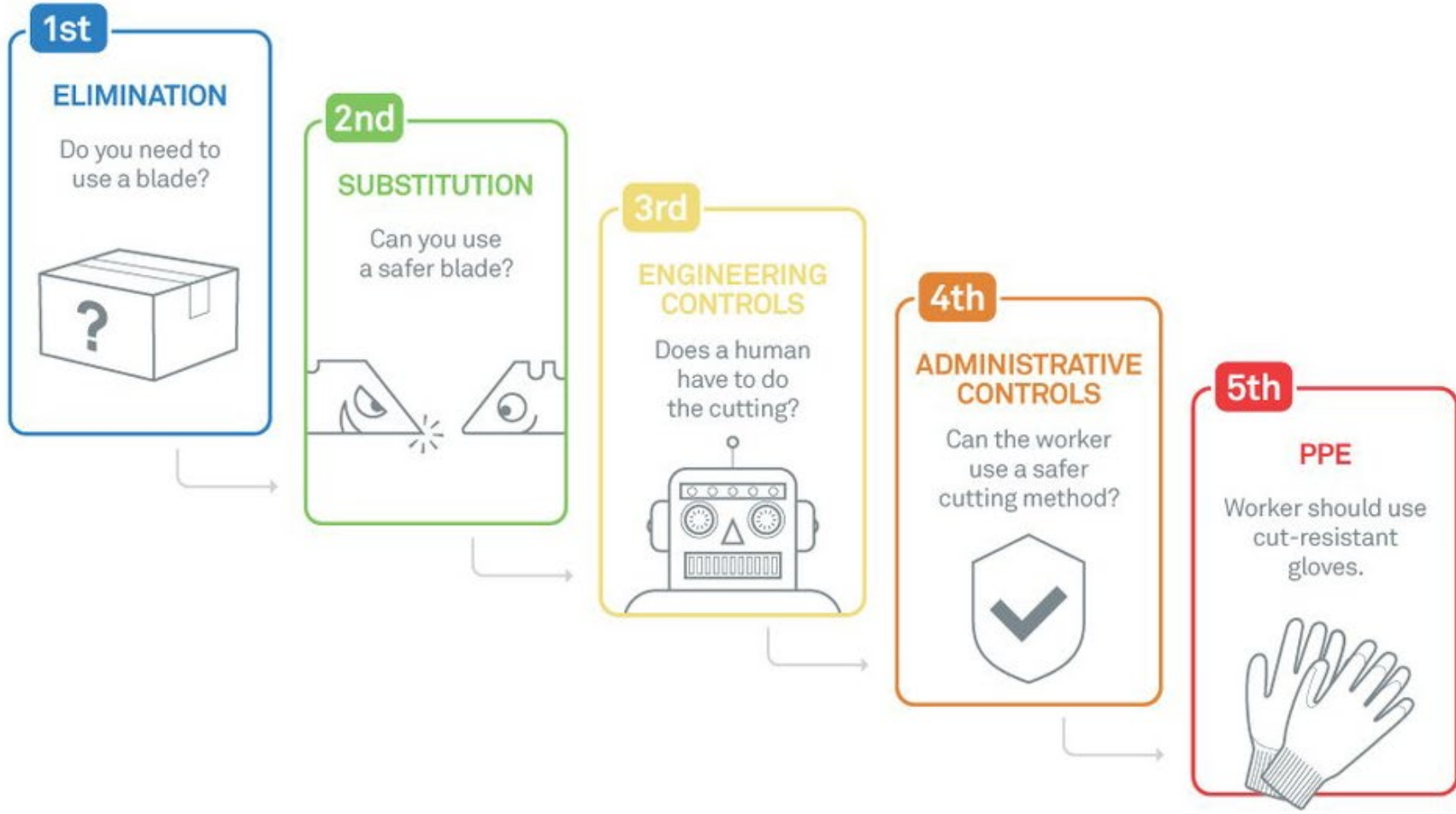
## Hazard Severity Categories

Description	Category	Definition
Very High	I	Death, Permanent total disability, system loss, irreversible significant environmental impact, or monetary loss equal to or exceeding AED 10M
High	II	Permanent partial disability, injuries, or occupational illness that may result in hospitalization of at least three personnel, reversible significant environmental impact, or monetary loss equal to or exceed AED 5 M but less than AED 10 M
Medium	III	Injury or occupational illness resulting in 5 or more lost workdays, reversible moderate environmental impact, or monetary loss equal to or exceed AED 1 M but less than AED 5 M
Low	IV	Injury or occupational illness resulting in 1 or more lost workdays, reversible moderate environmental impact, or monetary loss equal to or exceed AED 100K but less than AED 1M
Very Low	V	Injury or occupational illness not resulting in a lost workday, minimal environmental impact, or monetary loss less than AED 100K

## Qualitative Hazard Likelihood level

Description (a)	Level	Specific Individual Item	Fleet or Inventory (b)
Almost certain	A	Likely to occur in the life of an item	Continuously experienced
Likely	B	Will occur several times in the life of an item	Will occur frequently
Possible	C	Unlikely, but possible to occur in the life of an item	Will occur several times
Unlikely	D	So unlikely that it can be assumed occurrence may not be experienced in the life of the item	Unlikely to be occur but slightly possible
Very Unlikely	E	Incapable of occurrence. This level is used when potential hazards are identified and later eliminated	Incapable of occurrence. This level is used when potential hazards are identified and later eliminated

# General Hierarchy of Control



## Step 4: Record Significant Findings and Implementing

### Typical contents:

- Activity/area assessed and hazards.
- Groups at risk.
- Risks and adequacy of existing control measures.
- Further precautions needed.
- Date and name of competent person.
- Review date.

1.1.01A	Control Number
implosion or failure of pressure hull	Hazard Description
improper material selection for pressure	Potential Causal Factors
Internal flooding	Potential Effects
1C <sup>2</sup>	HRI/ HRA (Hazard Index)
Follow ASME for pressure boundary material specifications and testing	Risk Control Recommendation
1E <sup>3</sup>	Effect of Recommendation on HRI
ASME PVHO-1A	Risk Control References
Conduct formal material selection review and workmanship testing program per hazard control references	Verification of Control
Open, Ongoing	Status of Control

Example Risk Register Worksheet

## Step 5: Review

- **Significant change in:**

- Process.
- Substances.
- Equipment.
- environment.
- Personnel.
- Workplace

- **If it is no longer valid:**

- Accident.
- Near miss.
- Ill health.
- Change to legal standards.

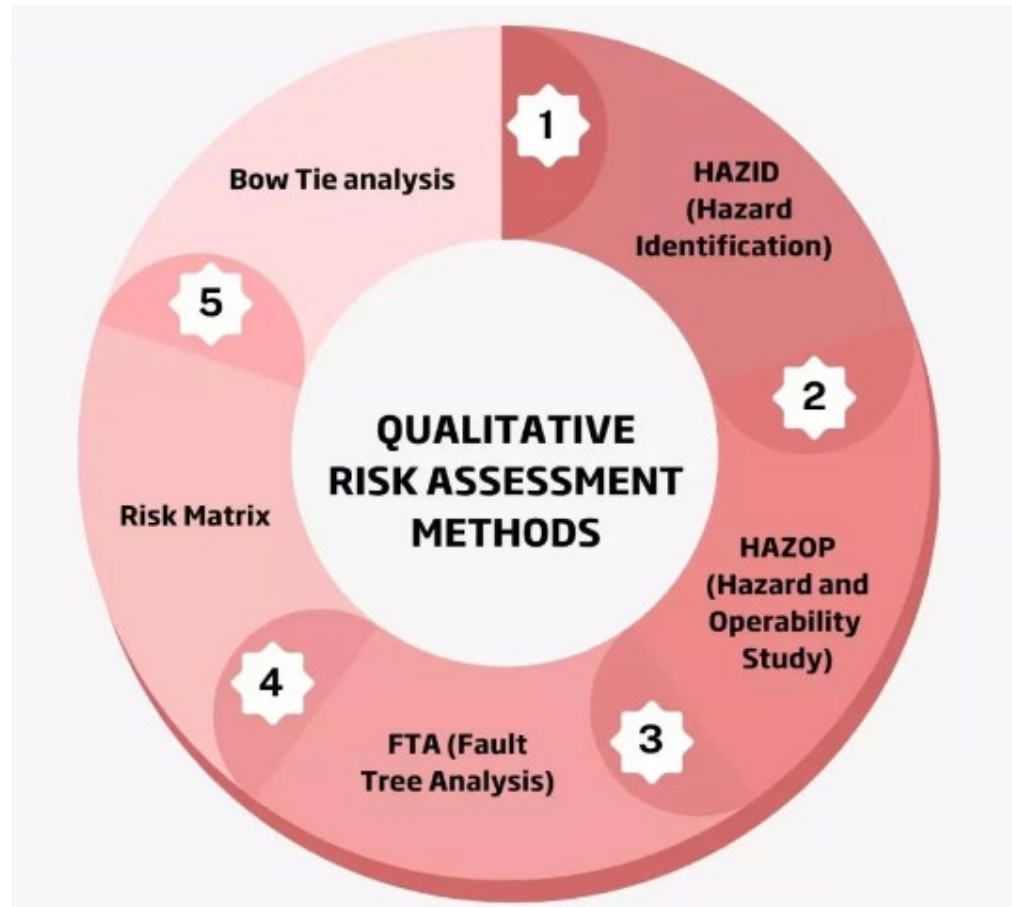
- **Periodically**

- Recommended Frequency is Yearly (Varies According to the industry standards, Nature of Risk involved)





## Various Risk Analysis methods



## Benefits of Qualitative Risk Analysis

-  **Early Risk Identification**
-  **Expert input**
-  **Improved Risk Communication**
-  **Improved risk prioritization**
-  **Quick and easy**





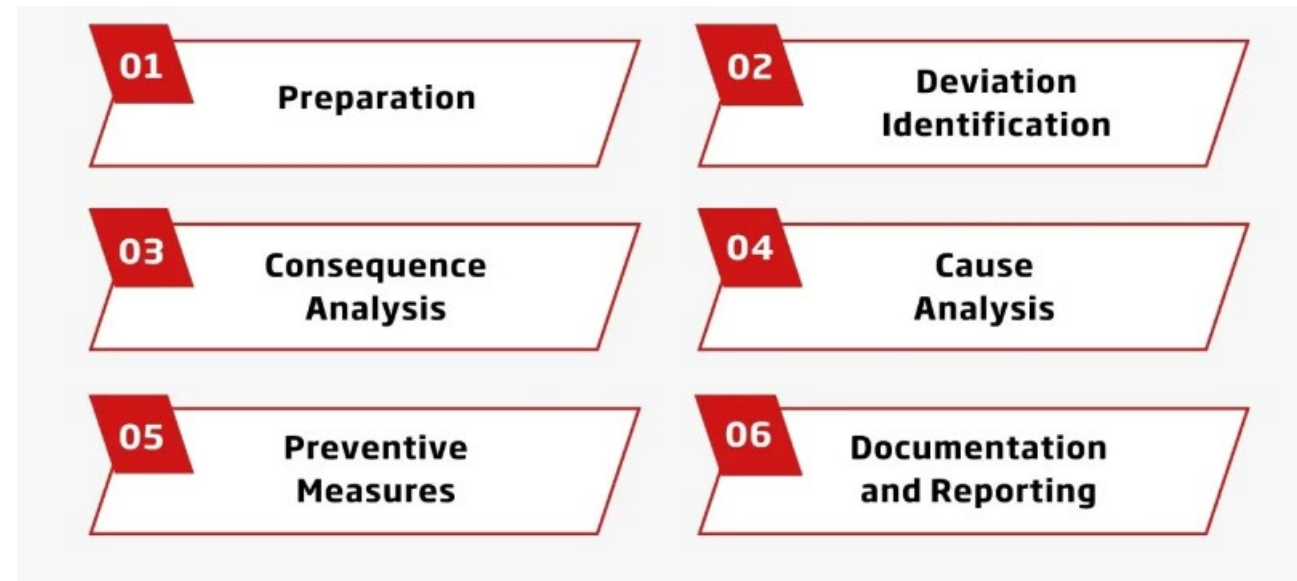
## Hazard Identification (HAZID)



## Hazard Operability (HAZOP)

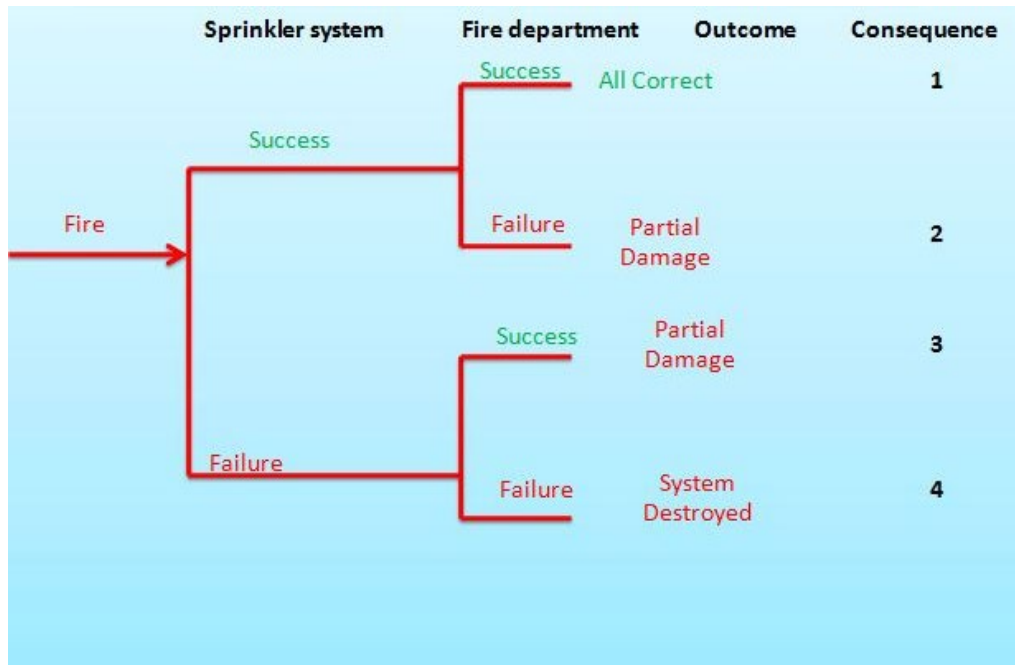


### Key Features and Steps Involved in a HAZOP Study



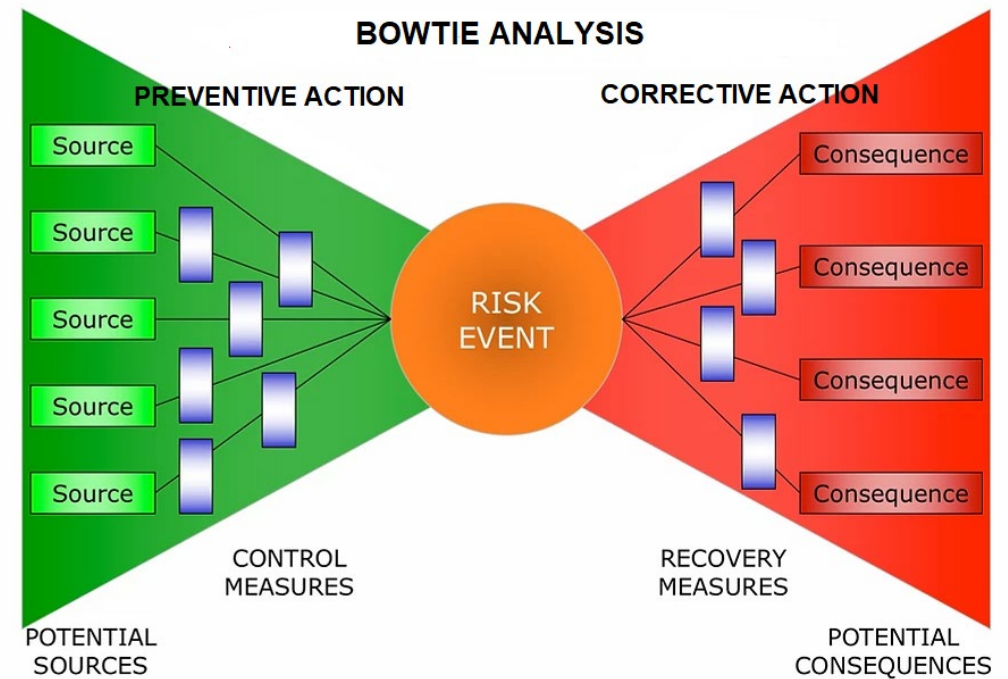
## Fault Tree Analysis (FTA)

- Understand why things go wrong in a complex system.
- Create a tree diagram with causes of failure.
- Identify the “bad thing” to prevent.
- Improve system parts based on analysis.



## Bowtie Analysis

- Manage risks for an event.
- Draw a bowtie shape.
- List causes (left) and consequences (right).
- Add barriers in the middle for safety.



# THANK YOU

## QUESTIONS?

You can find us on  
[quality@lifelinegcc.com](mailto:quality@lifelinegcc.com)

# Upcoming Training Sessions- 2024

Training Topics	Training Date	Training Topics	Training Date
Office Safety and Health	29 May 2024	Disaster and Emergency Management	18 Sep 2024
Importance and Future of Environmental, Social, and Governance- RAKEZ Employees	11 June 2024	Workplace Ergonomics	25 Sep 2024
Mental Health Awareness	13 June 2024	HSE Forum	30 Sep 2024
Driving and Transportation Safety	26 June 2024	Safety Leadership and Culture	10 Oct 2024
HSE Regulation and Process Updates	11 July 2024	HSE Regulation and Process Updates	16 Oct 2024
Human Factors and Error Management	23 July 2024	Indoor Air Quality	31 Oct 2024
Incident Investigation and Reporting	31 July 2024	Construction Regulation	5 Nov 2024
Construction Regulation Awareness	7 Aug 2024	Beach/ Desert / Wadi Cleaning	7 Nov 2024
AI in Workplace Safety	14 Aug 2024	Waste Management and Pollution Control	13 Nov 2024
Workplace Wellness Programs	28 Aug 2024	Machine Guarding and Equipment Safety	28 Nov 2024