



## EXERCISE FOR SECURITY STUDENTS

### Analysis of risks

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**BACKGROUND:**

Effective management of risks calls for the correct analysis of the identified risks. This is the middle step in risk assessment, according to the ISO 31000:2018 standard. It is always important to use a variety of tools for effective risk analysis.

<p><b>REFERENCE TO ISO 31000 STANDRD</b></p> <p>In the ISO 31000:2018 standard risk analysis is depicted as the middle step of risk assessment and the core process as a whole.</p>	<pre>graph TD; subgraph RMP [RISK MANAGEMENT PROCESS]; direction TB; S[Scope, context, criteria]; subgraph RA [RISK ASSESSMENT]; direction TB; RI[Risk identification]; RA_A[Risk analysis]; RE[Risk evaluation]; end; RT[Risk treatment]; end; RA --&gt; RT; RT --&gt; RR[RECORDING &amp; REPORTING]; RR --&gt; MC[COMMUNICATION &amp; CONSULTING]; MC --&gt; S; S --&gt; RI; RI --&gt; RA_A; RA_A --&gt; RE; RE --&gt; RT; RT --&gt; MR[MONITORING &amp; REVIEW]; MR --&gt; S; MR --&gt; RI; RR --&gt; RA_A; RR --&gt; RE; RR --&gt; RT; RR --&gt; RR; MC --&gt; RA_A; MC --&gt; RE; MC --&gt; RT; MR --&gt; RA_A; MR --&gt; RE; MR --&gt; RT; RR --&gt; RA_A; RR --&gt; RE; RR --&gt; RT; RR --&gt; RR;</pre>
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## GOAL OF THIS EXERCISE:

Students will familiarize themselves with risk analysis methods and tools presented in the IEC 31010:2019 standard and choose three tools, for one of the three areas of the analysis, them being consequence, likelihood and level of risk. The students will then test them and compare their effectiveness and usage.

### TASK DESCRIPTION FOR STUDENTS:

- 1.** Form groups of 4 to 5 people.
- 2.** Each group will be given three tools, one for each category (consequence, likelihood and level of risk) as presented in the IEC 31010:2019 standard.
- 3.** With the guidance of the teacher, you will be given a target and a list of risks.
- 4.** Study your given tools and prepare to hold a short presentation on them, along with presenting the results of your analysis to the class after the analysis.
- 5.** Use your given tools to analyze the risks given to you, keeping in mind the targets' activities and operating environment in your analysis. You can choose which tool you use for which risk, do not analyze every risk with every tool.
- 6.** Write down the results of your analysis and prepare to present it to the class.
- 7.** Present the tools you used, assigned target and the results of your analysis to the class.
- 8.** Listen to the other presentations, and after each one prepare comments and questions for the presenter about how your methods differ from each other and which you believe to be the best and why.
- 9.** Lastly, when all presentations are over there will be time to discuss with your own group about the differences between the tools and at the end of it each group will present their thoughts for the rest of the class.

### TASK DESCRIPTION FOR TEACHER / TRAINER:

The teacher's tasks are as follows:

- 1.** Before class estimate the number of groups there will be and prepare enough risk analysis tools that fit the assignment and chosen scenario for each category, for each group from table A.3 of the IEC 31010:2019 standard.
- 2.** Before class prepare a fictional location and a list of at least 4 risks that have been identified. A blueprint of the facility and a description of its operations are enough. Or you can use the example ones provided in the attachments.
- 3.** In class, instruct students to form groups of 4 to 5 people, optionally you can use any desired method to divide the students yourself.
- 4.** Assign the groups their 3 analysis tools as well as the prepared target and identified risks.
- 5.** Instruct the students to study their 3 given tools and familiarize themselves with them. Inform the students that they should use their given tools to analyze the risks of the fictional property given to them and remind them of the importance of reading the description of operations and taking that into account in their analysis. Remind the

students that they should choose which tools they use for which risk and advise them not to analyze every risk with every tool.

- 6.** Inform the students that they will present their 3 tools and their results in front of the class when the time to analyze is up. Choose any method of presentation you see fit. Presentations should be a maximum of 5 minutes in length (depending on the number of students this can be shorter or longer if needed) and a maximum of 6 slides or two pages depending on chosen method.
- 7.** Remind the students to write down their findings in their chosen method. All presentable ways are acceptable, for example Word, Miro, pen and paper or PowerPoint.
- 8.** While the students are analyzing risks and preparing their presentation, your task is to oversee the process and help anyone who has any questions on the matter of the presentation method or the tools, for example.
- 9.** Instruct the students to present their 3 tools and the results of their risk analysis. Inform them of the presentation order and schedule of 5-minute presentations and 2 minutes of time for comments between each.
- 10.** During the presentations your task is to watch the clock and stop anyone from going to too much overtime, give feedback during the commenting time and direct the conversation. In a case where the students do not start the commenting spontaneously you can give a comment as a first example and give the students some examples of what to comment on. If this does not work structure the entire commentary section by appointing turns by pointing out, a student at a time, who will give out a comment.
- 11.** After all presentations are complete give the students time to converse in their groups and then direct a conversation in class about the differences of the tools and which each group sees as the best.

#### **ADDITIONAL SKILLS THAT THE STUDENT ACQUIRES THROUGH THIS ASSIGNMENT:**

Group work, Communication within a group, Presentation, Working under time constraint, Comparison and giving constructive feedback.

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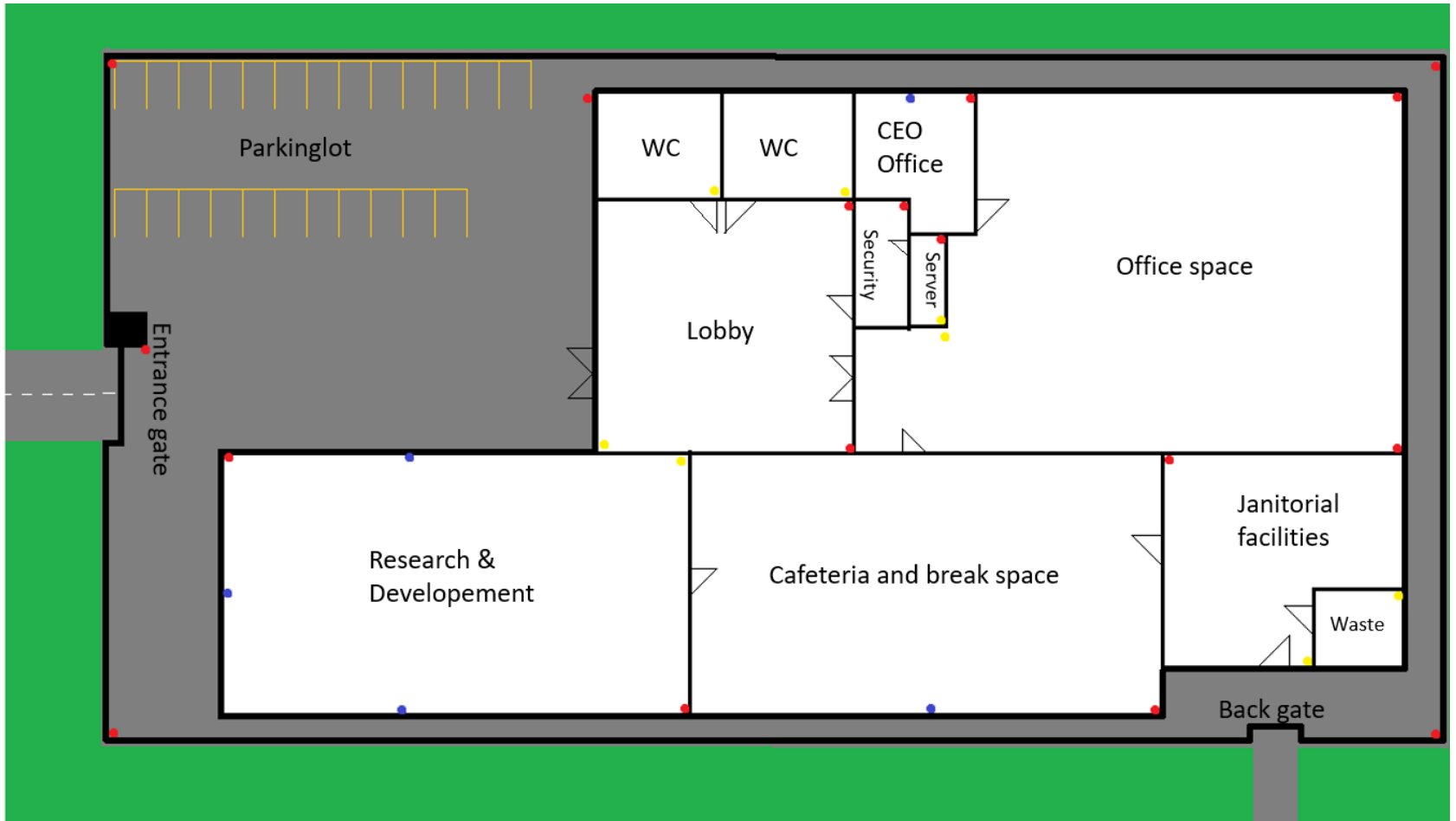
#### **ATTACHMENTS, MATERIALS**

1. Blueprint 1
2. Blueprint 2
3. Description for company in the blueprint and identified risks 1
4. Description for company in the blueprint and identified risks 2



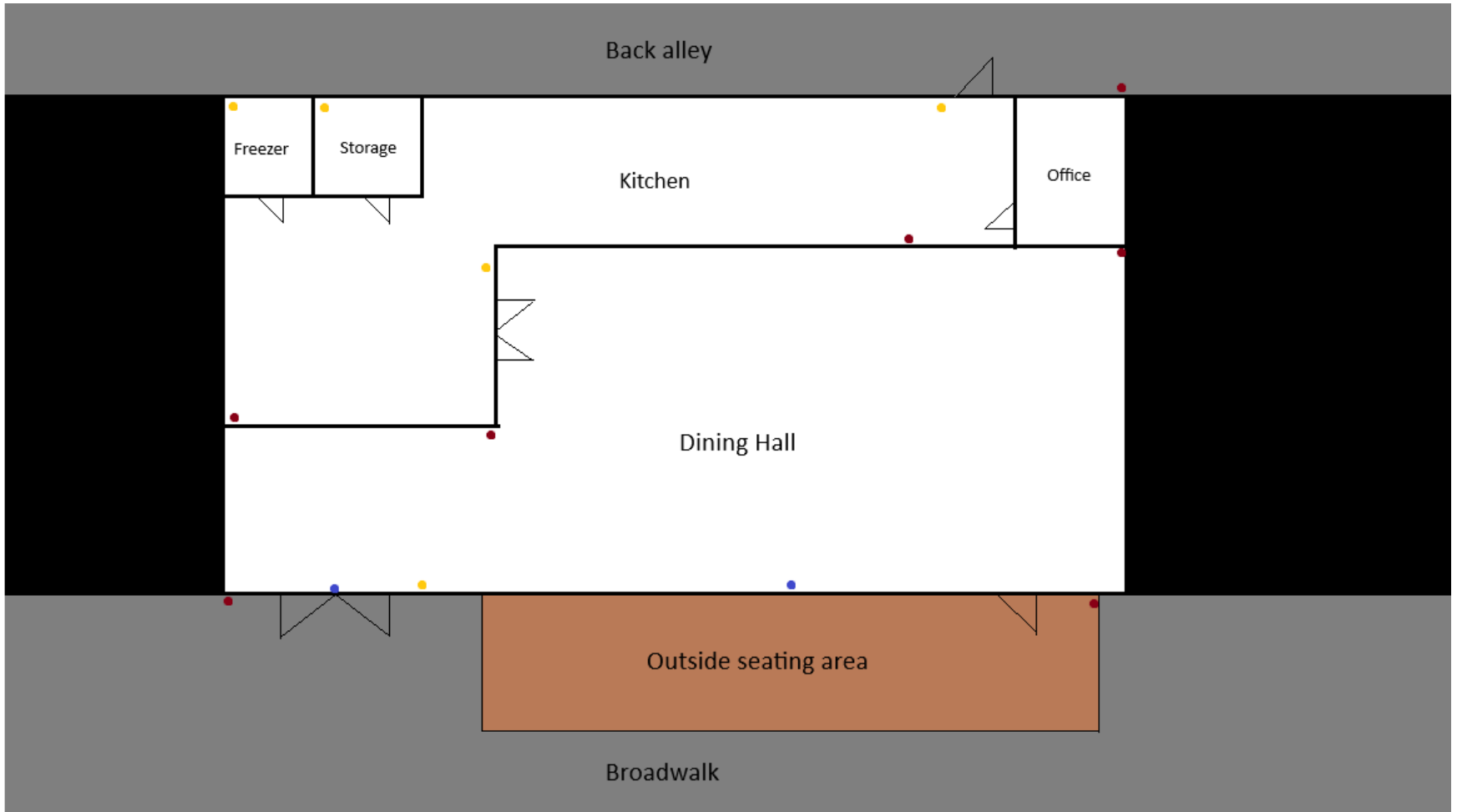
## Blueprint 1

- Camera
- Motion detector
- Glass break detector
- Fence/Wall
- Security booth



# Blueprint 2

- Camera
- Motion detector
- Glass break detector
- Wood



## Description for company in the blueprint and identified risks 1

A small specialty technology manufacturer with 30 employees.

The building is in southern Finland and is surrounded by forest and an industrial district.

It is about a 15-minute drive away from a city center and the surrounding businesses are mainly car manufacturing and metal working related.

### **Identified problems:**

- Slipping hazard in front of the back gate in winter.
- Subpar safety equipment for employees in the R&D department.
- No security present outside of office hours and the arrival time of police from alarm is about 20 minutes.
- Door between Lobby and Office space is not locked. Risk of intruders, shoulder surfing and other forms of physical spying.

## Description for company in the blueprint and identified risks 2

The company is a casual restaurant with good food and alcohol served.

The restaurant is located in the very heart of the city of over 10 million people, in a warm climate. The surrounding businesses are mostly fashion boutiques or cafes.

### **Identified problems:**

- Dining hall fire alarm is blocked by a table.
- Back-alley door has a damaged lock. It does lock but can be shook open.
- Raw meat stored next to cooked meat in freezer.
- The varnish of the terrace wood gets extremely slippery in the rain.