

## Social Engineering Lab Instructions

The objective of this lab is to develop and implement a detailed plan to gain unauthorized access to a secure area in a fictional company, and a subsequent escape. You will be using **different social engineering / physical security techniques**. You will have to analyze all the possible weaknesses in the provided documents, identify potential vulnerabilities, and plan different strategies to exploit these vulnerabilities while maintaining considerations throughout the process.

### By the end of this lab, you will:

- Understand key social engineering tactics and physical security principles.
- Be able to assess vulnerabilities in a building's security layout.
- Create a short report that outlines your infiltration plan, explains the methods used, identifies risks, and proposes mitigation strategies.

### Step 1: Initial Setup

- **Task:** Familiarize yourself with the lab objectives.
- **Materials:** You should have received documentation about a company, including background information, and a visual map.
- **To-do:**
  1. Review the map and background information about the company.
  2. Refresh your understanding of social engineering techniques by reviewing the module's material.
  3. Take note of the building's peculiar layout and any areas that could be potential vulnerabilities.

### Step 2: Reconnaissance

- **Objective:** Identify possible weaknesses in the physical and social security of the building.
- **To-do:**
  1. Analyze the building layout, paying attention to entry points, camera locations, security guards, parking areas, and any additional relevant details you find.
  2. Identify security vulnerabilities, such as unguarded doors, misplaced cameras, or anything you consider relevant.

3. Document all potential vulnerabilities that could be exploited (e.g., by using social engineering tactics).
4. Make observations on how the company's personnel might react to security breaches.

### Step 3: Planning the Attack

- **Objective:** Design a step-by-step plan to gain access to the server room.
- **To-do:**
  1. Create a detailed plan to gain unauthorized access to the server room using different techniques.
  2. Consider using common tactics such as impersonation, tailgating, or any relevant technique.
  3. Justify your choices and explain why these would be effective in exploiting the vulnerabilities you identified during reconnaissance.
  4. Ensure your plan includes how to bypass physical security measures, such as surveillance cameras, and describe any fallback strategies if your primary plan fails.

### Step 4: Planning the Escape

- **Objective:** Ideate a simple escape.
- **To-do:**
  1. Create a simple plan to leave the room and building premises.
  2. Consider leaving minimal tracks.

### Step 4: Final Report Delivery

- **Objective:** Summarize your findings and present your plan.
- **To-do:**
  1. Based on your previous notes, complete a free form report detailing the following:
    - Your name, and student number
    - Short company background and map information
    - Phases or steps of your plan
    - The techniques you have employed and the reasoning behind each.
    - Your escape

- Potential risks and how these can be mitigated (e.g., better camera placement, implementation of physical security layers)
  - Ethical considerations and reflections.
2. Submit the report on the online platform or present it to your teacher/supervisor for feedback.

**Assessment:**

Your performance will be evaluated based on:

- The clarity and thoroughness of your report.
- How well you identified security vulnerabilities.
- The creativity and realism of your plan.
- Your ability to justify the choices made in your plan.
- Your ethical reflections.
- You get extra points if you ideate and report an effective escape plan.