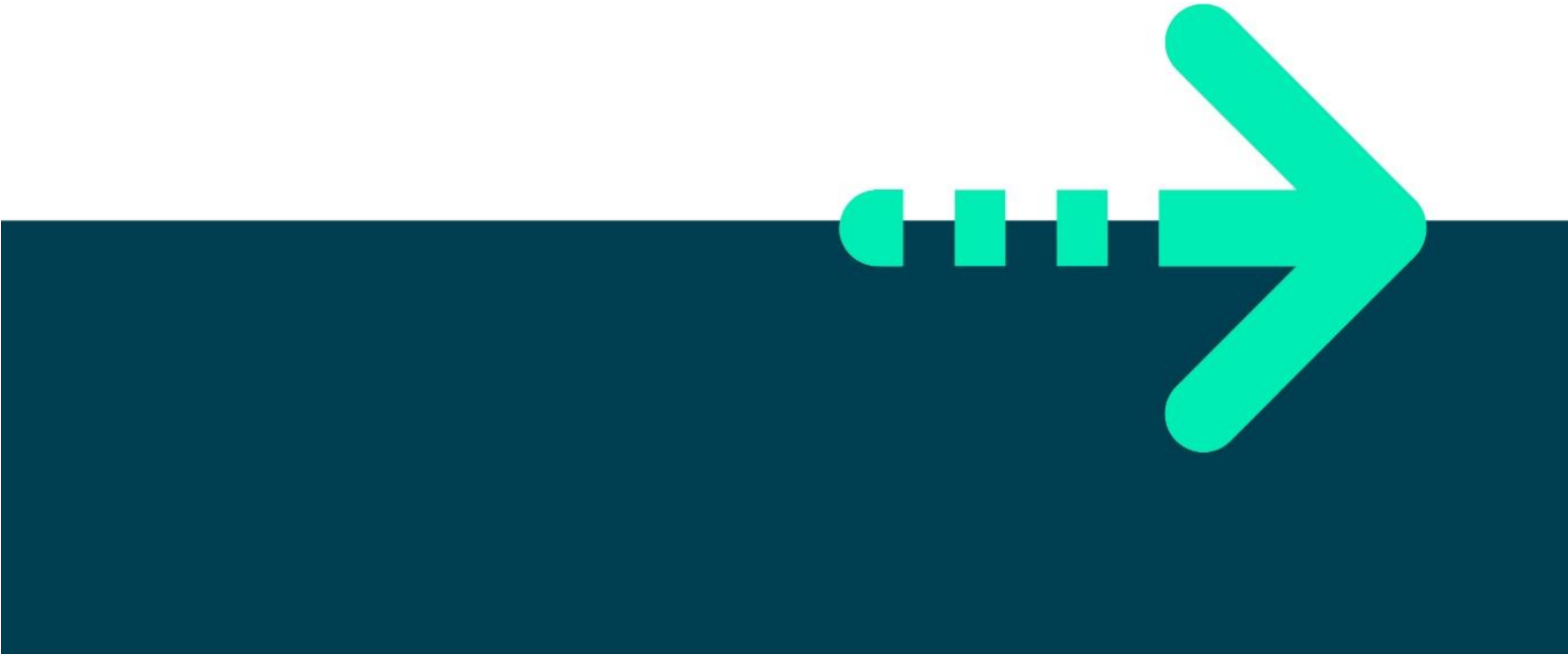
Data protection and data security scenarios

Learner Guide



CONTENTS

Introduction

In your online learning, you covered the importance of **data protection and data security.** Read the definitions below to remind yourself of what they mean.

Data protection and data security are two related but distinct concepts crucial in ensuring the safety, confidentiality, integrity, and availability of data in various contexts, particularly in digital environments.

Data protection

Data protection covers the broader spectrum of policies, procedures, and regulations that govern the lawful and ethical handling of data.

Data security

Data security encompasses the technical measures and protocols used to protect data from various threats and vulnerabilities.

Objective

In this exercise you will learn the fundamental concepts of data protection and security in practical and relatable scenarios.

The purpose of this exercise is to encourage you to actively engage in secure practices and critical thinking regarding your digital activities and information handling.

Scenarios

Here are five simple yet effective scenarios on data protection and security. **Scenario 1 and 2 will be led by your trainer and completed as a class**. For the remaining three scenarios you will be put in groups and assigned a scenario. Each group should note their findings on a Word document and share with the class.

Scenario 1: Creating a strong password

Scenario: You're signing up for a new online gaming platform. Create a strong password that includes a mix of letters, numbers, and symbols. Ensure it's at least 12 characters long. Write it down and keep it in a safe place.

Task: Create a strong password following the guidelines. Keep the password secure, and do not share it with anyone. Why should your password be strong and secure?

Scenario 2: Identifying safe websites

Scenario: You're researching information for an apprenticeship project online. You come across two websites: one is HTTPS secured, and the other is HTTP without a security padlock.

Task: Explain the difference between HTTP and HTTPS and why it's important to use HTTPS websites for sensitive activities like sharing personal information or conducting financial transactions.

Scenario 3a: Data Privacy Responsibility

Scenario: A friend asks for your login details for an online service.

Task: Explain why it's important to never share your login credentials and suggest an alternative solution for your friend.

Scenario 3b: Identifying phishing emails

Scenario: You receive an email claiming to be from your favorite online store, asking for your personal information to verify an order you didn't make.

Task: Identify the signs that indicate this email might be a phishing attempt. List at least three red flags. Explain why you think it's suspicious and what actions you should take to handle such emails.

Scenario 3c: Safe sharing of personal information

Scenario: You're about to sign up for a new online service that asks for your address, phone number, and birth date.

Task: Consider what personal information is necessary to provide. Explain why it's important to be cautious when sharing sensitive details online.

Scenario 4a: Backing up important apprenticeship projects

Scenario: You've been working on a critical school project on your computer for weeks. Suddenly, your computer crashes, and you lose all your data.

Task: Explain how you could have prevented this situation. Outline a simple backup plan to ensure your projects are safe from unexpected

computer failures. Implement this backup strategy for your current project, if any.

Scenario 4b: Two-Factor authentication setup

Scenario: You're accessing your email account's security settings.

Task 4.1: Explain how 2FA enhances the security of your account. Provide examples of how it prevents unauthorized access.

Task 4.2: List two popular websites or online services that strongly encourage or require users to enable Two-Factor Authentication. Explain why these platforms prioritize 2FA.

Scenario 5a: Updating software and apps

Scenario: You've noticed that your phone's apps are not working as well as they used to. Some friends suggest downloading an app from an unofficial source to fix the issue.

Task: Explain why downloading apps from unofficial sources might be risky. Describe how regularly updating your apps and phone's operating system from official sources can help protect your device and data.

Scenario 5b: Device software updates

Scenario: Your smartphone notifies you of a software update available for installation.

Task: Explain the importance of regularly updating your device's software and apps.