# **Worksheet**

**Title: Choosing the Right Blockchain Tool for Applied Research**

**Purpose:** The worksheet presents a scenario where the learner must provide a solution. In this scenario, an applied researcher in the field of VET is conducting research for a mid-sized company to determine the reasons behind a significant drop in employee productivity and offer practical solutions. The company uses blockchain technology for certain operations, and the researcher believes that analyzing blockchain data may uncover valuable insights. **The goal is for the learner to choose the most appropriate blockchain tool to help identify the causes of reduced productivity and present a data-driven solution.**

**Steps to take:**

1. **Read the following scenario carefully:**

*You are conducting applied research for a mid-sized company that has noticed a significant drop in employee productivity. Your task is to identify the reasons for the decline and propose practical solutions. The company uses blockchain technology for certain operations, and you believe analyzing blockchain data may reveal valuable insights.*

1. Below are 3 blockchain tools. Review the characteristics of each tool carefully and decide which one would be the most helpful for your research.
2. After making your choice, please explain why you selected that specific tool and how you would use it to identify the reasons for productivity drop.
3. Blockchain Tools:

**T1: On-Chain Data Analytics (Dune Analytics/Santiment)**

* Provides customizable dashboards for visualizing on-chain data.
* Analyzes transaction flows, token distributions, and network activity.
* Offers tools for discovering behavioural patterns that may impact productivity.

**T2: Market Analysis (CoinGecko/ CoinMarketCap**

* Tracks historical price trends and market performance
* Suitable for portfolio management and investment analysis

**T3: Smart Contract Auditing (MythX/CertiK)**

* Analyses decentralised applications to ensure integrity
* Focuses on preventing exploits and security breaches
1. Your task is to:
2. **Evaluate** each tool based on its characteristics
3. **Select** the one you think is the most relevant to help you identify the reasons for the drop in productivity
4. **Explain** why you made this choice and how you would use the tool to gather insights.

**Deliverables:** Learners should recognize that Tool 1 (On-Chain Data Analytics) is the most suitable choice, as it provides the necessary data-driven insights into on-chain transactions and behaviors, which are likely the root of the productivity issues. The other tools, while useful in specific contexts, do not directly address internal operational or productivity-related challenges.

**Instructions for Completing This Worksheet:**

You must write a text with your answer that does not exceed 500 words, covering the three key points of the question: **Which tool have you selected?** **Why is this tool the most appropriate for identifying productivity issues? (relevance); How would you use this tool in a practical research context?**

Also, make sure your answer: a) Clearly justifies your choice of tool, b) Explains how the selected tool helps in identifying the reasons for the productivity decline and c) Describes the practical steps you would take to apply the tool in your research.