Skills Bootcamp in Data Technician: Learner Journey

Phase 1

Week: 01
Onboarding & Induction – (30 minutes day 1)

Learner completes induction meeting, receives an overview of the programme & an individual learning plan is created.

Workshop 1: Development of Data sets & visualisation using Excel

- ✓ Building a worksheet
- ✓ Formatting
- ✓ Editing
- ✓ Functions & formulas
- ✓ Macros
- ✓ Data visualisation using charts & graphs
- ✓ Filters & custom sort
- ✓ What -if analysis
- ✓ Security
- ✓ Lookup function
- ✓ PivotTable
- ✓ Switch function

Phase 2

Week: 01 / 03
Knowledge / Skills Gained

Workshop 2: Introduction to Tableau Visualisation Tools

- ✓ Workflow & import data set
- ✓ Rename columns
- ✓ Create a Dashboard
- ✓ Data types & basic visuals
- ✓ Bar charts & calculated fields
- ✓ Apply sort by
- ✓ Rename the worksheet
- ✓ Create map
- ✓ Publish Dashboard

Workshop 3: Introduction to PowerBi – Visualisation Tools

- ✓ What is PowerBi?
- ✓ Importing data
- ✓ Data types & basic visuals
- ✓ Building your first dashboard

Week: 02
Career support session

Phase 3

Week: 03 / 05
Knowledge / Skills Gained

Workshop 4: Database Design- Access

- ✓ Design a database using non-relational & relational tables
- ✓ Create a data dictionary for data types
- ✓ Understand Entity & Attributes
- ✓ Validation & build a database
- ✓ Import & edit data
- ✓ Create queries using AND, OR, NOT & Wildcard
- ✓ Create a data entry form
- ✓ Create & edit reports & test

Workshop 5: Basics of SQL

- ✓ Schema types & core concepts
- ✓ Language features
- ✓ SQL queries & Data Types

Week: 04
Career support session

Phase 4

Week: 05 / 07 / 09
Knowledge / Skills Gained

Workshop 6-9: Microsoft Azure Data Fundamentals
Module 1: Explore fundamentals of data
- ✓ Data Structure & IoT- technology
- ✓ Application & interactions
- ✓ Explore data roles & services
- ✓ Legislation

Module 2: Explore fundamentals of relational data in Azure

Module 3: Explore fundamentals of non-relational data in Azure

Module 4: Explore fundamentals of data analytics
- ✓ Storage & Big Data strategy.
- ✓ Big Data architectures,
- ✓ Fundamentals of large-scale data warehousing
- ✓ Fundamentals-real time analysis

Week 06 / 08:
Career support session

Phase 5

Week: 09 / 11
Knowledge / Skills Gained

Workshop 10-11: Basics of Python

- ✓ Basic Syntax & Operators
- ✓ Control flow
- ✓ Data Collection Types
- ✓ Data Analysis using Pandas
- ✓ Data Visualization using Seaborn & Matplotlib

Assignment for portfolio

Workshop 11-12: Basis of R

- ✓ Data types & Posit
- ✓ Package & data lifecycle in R
- ✓ Exploratory data analysis
- ✓ What is EDA?
- ✓ Naming conventions
- ✓ What is an Outlier?
- ✓ What is a Quartile in R
- ✓ The 1.5 rule

Week 10 / 12:
Career support session

Phase 6

Week: 12
Achievement & certification

Consolidation week for Portfolio build

Build & complete presentation portfolio using GitHub

Achievement & certification

Outcome: Learner completes programme & recieves certification.

The learner has the potential to progress onto a level 3 Data Technician Apprenticeship.

Data Technician Job: Starting Salary 18-28K

Career Progression: Just IT help students get their 2nd & 3rd jobs - Keep in touch.

Support & guidance is offered throughout your career