



Data Analytics

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Professional Foundations Programme

(your first 3 months)

What is Professional Foundations?

Professional Foundations is a foundational programme that helps young professionals develop the essential skills needed to excel in their careers.

Over 3 months, learners engage in a programme designed around practical skills and knowledge, specifically tailored to the modern tech workplace. Through a mix of individual projects, team-based challenges, and real-world applications, this programme builds a solid foundation for professional success.

Why is this Programme Important?

In today's job market, technical skills alone are not enough for a successful career. Employers seek well-rounded professionals who possess both technical know-how and soft skills—like communication, problem-solving, and leadership.

The Professional Foundations programme bridges this gap, empowering learners to navigate complex work environments with competence and confidence. This programme provides a complete toolkit for building the vital skills professionals need to succeed in a career in any industry.

Career Readiness

Learners gain critical professional skills that help them stand out in the workforce and succeed in tech-focused roles.

Collaborative Learning

Learners work in squads, encouraging peer-to-peer learning, teamwork, conflict resolution, and a culture of continuous growth. This experience also helps build a professional network, and networking skills, that will help learners grow their future careers.

Practical Application

The programme features hands-on exercises and deliverables that allow learners to immediately apply their newly acquired skills, making learning both engaging and relevant to the real world.

Key Components of the Programme

Professional Foundations emphasises 8 key Meta-Skills across Leadership, Analysis, and Execution—essential skill sets for thriving in today's workplace.

Tech Skills



Managing Complex Tasks



Entrepreneurial Thinking



Leading Self



Critical Thinking



Communicating for Impact

Quantitative Reasoning



Leading Others



7 Months (20–40 hrs per week)

What is Data Analytics?

Our programme empowers learners with essential skills and knowledge to excel in data analysis. Data analytics involves systematically analysing, interpreting, and visualising data to optimise processes, enhance customer experiences, and achieve strategic goals for organisations.

Why Data Analytics?

Becoming a Data Analyst grants you the power to enhance efficiency and elevate company performance by deciphering data patterns. You'll navigate complex datasets, advance programming skills, and utilise them for data manipulation, analysis, and exploration.

Programme Objectives

- Master data analysis techniques, programming languages, and tools like SQL and Power BI for practical application in various industries.
- Explore ethical considerations in data analytics and ensure compliance with industry standards.
- Gain hands-on experience through projects, workshops, and networking opportunities.
- Receive personalised career support for securing rewarding data analytics roles.
- Stay updated on emerging trends through ongoing professional development.

Why Choose Us?

Professional Foundations

Before starting the Data Analytics programme, learners complete our 3-month foundational training, where they acquire vital skills such as self-awareness, teamwork, communication, and critical thinking—essential for success in tech.

Problem-Solving Power

Acquire the ability to tackle complex problems by extracting insights from data.

Certification

The programme awards graduates with a Data Analytics certificate, affirming their expertise and strengthening their credentials.

ALX Community

Facilitating personal and professional growth by joining ALX Community, a prestigious talent community offering valuable resources and networking opportunities.

Tools Learners Get to Use



Google
Sheets



PowerBI



Recommended Computer System Requirements for Data Analytics programme:

- **OS:** Windows 10 (64-bit) or later
- **RAM:** 8 GB minimum (16 GB recommended for larger datasets)
- **Storage:** SSD with at least 256 GB free space
- **Processor:** Multi-core (Intel i5 / Ryzen 5 or better)
- **Display:** 1920 × 1080 resolution:

Note: Learners whose systems fall below these requirements often experience installation failures, sluggish performance, and an inability to proceed with their programme.



7-Month
Programme



100%
Digital (Online)
Learning programme



20–40 hrs
Per Week

Specialisation

Assessments

Weekly Assessments

Learning Webinars

Weekly Learning Webinars

Content Breakdown

Module 01: Explore 101

- Orientation
- Introduction to data and data analysis
- Problem-solving
- Programmatic thinking

Module 03: Querying Data

- Introduction to SQL
- Relational database design
- SQL in practice
- Data manipulation

Module 02: Preparing Data

- Introduction to spreadsheets
- Data manipulation
- Introduction to statistics
- Introduction to data modelling

Module 04: Visualising Data

- Data in Power BI
- Visuals in Power BI
- Dashboards
- Visual storytelling

