

DATA ANALYTICS BOOTCAMP

SYLLABUS



NEWApprenticeship
Experience » Learn » Lead

OVERVIEW



In today's job market, candidates need a competitive edge. New Apprenticeship aims to equip you with data expertise and help you launch a career in data analytics at our partner company. Our 8-week bootcamp will teach you Python Programming fundamentals, Database Management system knowledge, Linux shell scripting, object-based programming, and provide an ITIL (Information Technology Infrastructure Library) overview. Learners will also learn how to properly position their resume to stand out to hiring managers. Combining skill development with job placement training from the start of the apprenticeship, our candidates find jobs more quickly than traditional job-search methods.

Our [New Apprenticeship Team](#) will be happy to connect with you to answer any questions you have about the program.

FUNDING PROVIDED BY



All New Apprenticeship Pre-Employment Bootcamp and Apprenticeship Programs are brought to pre-apprentices at no cost by our grant partners not limited to the Department of Labor, Workforce Boards, and Employers. By entering the program, learners acknowledge and agree to complete and submit documentation and comply with the requirements for eligibility. Please direct questions to grants@newapprenticeship.com.

WHAT TO EXPECT



During the 8-week pre-apprenticeship, participants will:

- Commit 15+ hours live training and study time per week
- Be able to demonstrate competence in leveraging data analytics and computer programming principles
- Have the opportunity to gain skills and experience to place you at the top of your field

COURSE DESCRIPTION



In this online training, live instructors will lead the facilitation of the foundations for data analysis in both technical and communication skills. Participants will be prepared to apply for an entry-level data role and build a basic understanding and knowledge in data analysis fundamentals. They will eventually be eligible to obtain Oracle SQL certification to enhance their knowledge base and attract strong job offers. The coaching includes job preparedness and identification, interview preparation, resume development, and networking. Coaching is facilitated to prepare the participant's resume, and develop communication skills to effectively communicate and present their skill set to their future employer.

CURRICULUM MAP



Week	Topic	Description
1-2	SQL & Database	<ul style="list-style-type: none">• Introduction to relational databases (data model, normalizing data, design considerations)• SQL basics (select, join, manipulate, group)• Advanced SQL (Subqueries, indexes, database concurrency)• Database security, users, and roles• Assessment (Quiz & portfolio project)
3-5	Data Visualization with Tableau	<ul style="list-style-type: none">• Prepare and define data types for import• Connect and merge different data sources• Distinguish effective vs ineffective design• Visualize data using various charts• Create and modify a dashboard• Conduct basic statistics for data visualization• Assessment (portfolio project)
6-7	Python for Data Analysis	<ul style="list-style-type: none">• The basics of Python programming (variables, expressions, statements, and conditions, functions, loops, strings, and lists)• Basics of object-oriented concepts• Basics of data analysis with Python using Pandas• Assessment (Quiz & portfolio project)
8	Tableau Desktop Specialist Exam Prep	<ul style="list-style-type: none">• Study group sessions• Certification exam

FAQS

Am I guaranteed a job after bootcamp?

No. You are guaranteed at least 1 interview with a partner company if you complete the pre-apprenticeship in good standing.

How much does the program cost?

Bootcamp is free for all participants of the Apprenticeship program (\$3,000 value). All costs are covered by available grant funds as well as contributions from our Employer Partners. We do ask that you provide any necessary documentation and collaborate with the NEW grants team for approval of available grant funds.

How much does the full-time apprenticeship role pay?

\$35,000.00 to \$40,000.00/year

Does the bootcamp require an in-person training?

All training, coaching, and mentoring provided by New Apprenticeship is remote. However, your employer may require you to work in-office upon acceptance of a full-time job.

What is the job title and job description?

Your job title will be Data Engineer Apprentice. Responsibilities include, but are not limited to:

- Develop, construct, test and maintain architectures
- Align architecture with business requirements
- Data acquisition
- Develop data set processes
- Use programming language and tools
- Identify ways to improve data reliability, efficiency and quality



"My apprenticeship has been amazing so far. The level of support I get from the program staff here has helped me accelerate my professional development." - Sabeel Khurram

LAUNCH YOUR NEW CAREER

Our [New Apprenticeship Team](#) is excited to connect with you and answer any questions you may still have!

You may also get started by taking the next step here:

[APPLY TODAY](#)