R Programming for Data Science (v1.0)

Category: Software Development & Programming | **Vendor:** Logical Operations

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

In our data-driven world, organizations need the right tools to extract valuable insights from that data. The R programming language is one of the tools at the forefront of data science. Its robust set of packages and statistical functions makes it a powerful choice for analyzing data, manipulating data, performing statistical tests on data, and creating predictive models from data. Likewise, R is notable for its strong data visualization tools, enabling you to create high-quality graphs and plots that are incredibly customizable.This course will teach you the fundamentals of programming in R to get you started. It will also teach you how to use R to perform common data science tasks and achieve data-driven results for the business.

About This Course

In our data-driven world, organizations need the right tools to extract valuable insights from that data. The R programming language is one of the tools at the forefront of data science. Its robust set of packages and statistical functions makes it a powerful choice for analyzing data, manipulating data, performing statistical tests on data, and creating predictive models from data. Likewise, R is notable for its strong data visualization tools, enabling you to create high-quality graphs and plots that are incredibly customizable.

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Who Should Attend

This course is designed for students who want to learn the R programming language, particularly students who want to leverage R for data analysis and data science tasks in their organization. The course is also designed for students with an interest in applying statistics to real-world problems.
A typical student in this course should have several years of experience with computing technology, along with a proficiency in at least one other programming language.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

In this course, you will use R to perform common data science tasks.You will:

Set up an R development environment and execute simple code.

Perform operations on atomic data types in R, including characters, numbers, and logicals.

Perform operations on data structures in R, including vectors, lists, and data frames.

Write conditional statements and loops.

Structure code for reuse with functions and packages.

Manage data by loading and saving datasets, manipulating data frames, and more.

Analyze data through exploratory analysis, statistical analysis, and more.

Create and format data visualizations using base R and ggplot2.

Create simple statistical models from data.

Detailed Course Outline

Lesson 1: Setting Up R and Executing Simple Code

- Topic A: Set Up the R Development Environment
- Topic B: Write R Statements

Lesson 2: Processing Atomic Data Types

- Topic A: Process Characters
- Topic B: Process Numbers
- Topic C: Process Logicals

Lesson 3: Processing Data Structures

- Topic A: Process Vectors
- Topic B: Process Factors
- Topic C: Process Data Frames
- Topic D: Subset Data Structures

Lesson 4: Writing Conditional Statements and Loops

- Topic A: Write Conditional Statements
- Topic B: Write Loops

Lesson 5: Structuring Code for Reuse

- Topic A: Define and Call Functions
- Topic B: Apply Loop Functions
- Topic C: Manage R Packages

Lesson 6: Managing Data in R

- Topic A: Load Data
- Topic B: Save Data
- Topic C: Manipulate Data Frames Using Base R
- Topic D: Manipulate Data Frames Using dplyr
- Topic E: Handle Dates and Times

Lesson 7: Analyzing Data in R

- Topic A: Examine Data
- Topic B: Explore the Underlying Distribution of Data
- Topic C: Identify Missing Values

Lesson 8: Visualizing Data in R

- Topic A: Plot Data Using Base R Functions
- Topic B: Plot Data Using ggplot2
- Topic C: Format Plots in ggplot2
- Topic D: Create Combination Plots

Lesson 9: Modeling Data in R

- Topic A: Create Statistical Models in R
- Topic B: Create Machine Learning Models in R

Additional Course Details

Nexus Humans R Programming for Data Science (v1.0) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the R Programming for Data Science (v1.0) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for R Programming for Data Science (v1.0)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day R Programming for Data Science (v1.0) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the R Programming for Data Science (v1.0) training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for R Programming for Data Science (v1.0)?

Yes, we provide corporate training, dedicated training, and closed classes for R Programming for Data Science (v1.0). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for R Programming for Data Science (v1.0)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your R Programming for Data Science (v1.0) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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