

## **FIVE DAYS TRAINING ON DATA ANALYSIS WITH R.**

### **INTRODUCTION**

The R programming language is used for data analysis, data manipulation, graphics, statistical computing and statistical analysis. R helps individuals and organizations to analyse data sets beyond basic Excel file analysis. On top of that R is free and open source, no money is required to have R in your computer.

In this course participants will learn how to use R programming to explore data from a variety of sources by building inferential models and generating charts, graphs, and other data representations.

Trainers will use visualization techniques to explore new data sets and determine the most appropriate approach. They will describe robust statistical techniques as alternatives when data do not fit assumptions required by the standard approaches.

### **TRAINING OBJECTIVE**

The aim of this workshop is to provide training in understanding the concepts in data science and statistical analysis using R program.

### **TRAINING OUTCOME**

At the end of training participants will;

- Master the use of the R interactive environment
- Expand R by installing R packages
- Understand data analysis via EDA as a journey and a way to explore data
- Explore data at multiple levels using appropriate visualizations
- Acquire statistical knowledge for summarizing data
- Demonstrate curiosity and skepticism when performing data analysis

### **COURSE OUTLINE**

- Getting Started with R
- Installing R and R studio
- Working with R and R Studio
- Using R Scripts
- Working directory and Work Spaces

- Data types
- R Objects
- R Variables
- R operators
- Data Management and Manipulation
- Use R for descriptive Statistics
- Use R for Data Visualization
- Use R for inferential Statistics

### **WHO WILL ATTEND THE TRAINING?**

R programming skills will benefit Managers and Officers in the fields of statistics, data analysis, data scientists, machine learning engineers, big data engineers, IT specialists, database developers and much more.

### **DATE**

The training will be held from 18<sup>th</sup> to 22<sup>nd</sup>, May 2020 09:00-15:00Hrs. This training workshop shall be held at **Landmark Hotel, Dar es Salaam**

### **CONTACT**

More information about the training please contact us through E-mail: [info@researchexperts.co.tz](mailto:info@researchexperts.co.tz) and Tel. 0765825550/+ 255 787348005

### **PARTICIPATION FEE**

Training fee is 400,000/= (Tanzania shillings four hundred thousand only) per participant paid to “**Research Experts of Tanzania**” Account No. **0150396237500**; CRDB Bank. This fee covers tuition fee, facilitation, training materials, Installation of R, tea break, lunch, stationeries, and certificate.