



SHORT COURSE ON DATABASE ADMINISTRATION: SQL SERVER 2017 (4th – 15th November, 2019 – IAA Main Campus, Arusha)

1.0 INTRODUCTION:

Database Administration: **SQL Server 2017** is a two week course that presents the key principles and practices of fulfilling the role of a Database Administrator. The course is intended to provide individuals with knowledge and skills on how to use SQL Server product features and tools related to developing and implementing a database with focus on Database Administration.

This course will cover best practices in planning, implementing, administering, monitoring, and securing SQL Server system and Databases in any production environment. Labs and demonstrations will be performed to reinforce the lessons and provide hands-on experience working with SQL Server 2017.

2.0 COURSE OBJECTIVE:

This course is aimed to provide participants with professional knowledge and skillset for Database implementation focusing on Database Administration by using the tools within Microsoft SQL Server 2017. At the end of the course, participants will be equipped with in-depth expertise, tools, and hands-on experience in implementing, administering, monitoring, and securing SQL Server instances and Databases.

3.0 COURSE CONTENTS:

- Lesson 1 Best Practices in Database Development and Implementation
- Lesson 2 Getting started with SQL Server features and tools
- Lesson 3 Introducing database server components
- Lesson 4 Designing and implementing a database infrastructure
- Lesson 5 Provisioning databases
- Lesson 6 Administering security and permissions
- Lesson 7 Securing the server and its data
- Lesson 8 Understanding and designing tables
- Lesson 9 Performance tuning SQL Server
- Lesson 10 Understanding and designing indexes
- Lesson 11 Developing, deploying, and managing data recovery

Lesson 12 Implementing high availability and disaster recovery

Lesson 13 Managing and monitoring SQL Server

Lesson 14 Automating SQL Server administration

4.0 TARGET GROUP:

The course is intended for Database Administrators, Database Developers, Database Designers, Database Programmers, Database Security Administrators, Systems Developers, Systems Analysts, Systems Administrators, IS/IT Auditors, and IT Professionals who want to become skilled on SQL Server product features and technologies for implementing a database. Also, individuals who are developers from other product platforms looking to become skilled in the implementation of a SQL Server database.

5.0 METHODOLOGY

The course will be achieved through lectures, discussions, demonstration, and hands-on labs. Participants will receive all course materials in **flash disk**.

6.0 COURSE FEE:

The fee for the course is **TZS 1,500,000/=** (One million five hundred thousand only) to cover for course fee, course materials, tea/coffee, and lunch. It does not include accommodation and transport cost. Payment may be in cash, cheque or TISS paid directly to our **Bank Account No. 014103007130 in the name of Institute of Accountancy Arusha, NBC, Arusha Branch**.

1.0 DATE, DURATION, AND VENUE:

The course will run from **4th – 15th November, 2019** at the Institute of Accountancy Arusha, Main Campus – Njiro Hill, Arusha.

8.0 FOR MORE DETAILS, YOU MAY CONTACT THE FOLLOWING:

- **Eng. Nicholas Stanslaus (Course Director)**
Email: stanslaus.nicholaus@gmail.com; Cell: +255 754 390 127 and +255 783 390 127
- **Ms. Pamela Chogo (HoD – Consultancy & Executive Development)**
E-Mail: pchogo@iaa.ac.tz; Cell: +255 655 611 512 and +255 759 334 659
- **Ms. Caroline Lucumay (Course Administrator)**
E-Mail: clucumay@iaa.ac.tz; Cell: +255 782 993 077 and +255 754 023 059

APPLY TO:

The Rector,
Institute of Accountancy Arusha,
P.O.BOX 2798,
Arusha.
E-Mail: iaa@iaa.ac.tz