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**The School of IT International Pty Ltd**

Enterprise no: 2019/278233/07

Tax no: 9227879237

**Bank:** FNB

**Account Type:** GOLD BUSINESS ACCOUNT

**Account Number:** 62819004102

**Branch code:** 200512

**Branch Name:** SOMERSET WEST

**Tel:** 082 696 7749

**Website:** [www.schoolofit.co.za](http://www.schoolofit.co.za)

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## PostgreSQL Fundamentals for Administrators

**Duration:** 10 Hours

**Course Fee:** R10,900

**Start Anytime – Flexible Scheduling**

### Course Overview:

This introductory course is designed for aspiring database administrators and IT professionals who want to understand the fundamentals of PostgreSQL. It covers the essential skills needed to install, configure, and manage PostgreSQL databases.

### Modules Covered:

1. Introduction to PostgreSQL
  2. Installing PostgreSQL
  3. Basic SQL and Querying
  4. PostgreSQL Tools and Interfaces
  5. User and Role Management
  6. Backup and Restore Basics
  7. Maintenance and Housekeeping
  8. Hands-On Practice
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## PostgreSQL for Developers

**Duration:** 20 Hours

**Course Fee:** R15,900

**Start Anytime – Flexible Scheduling**

**Course Overview:**

Focused on application developers, this course teaches how to build, query, and optimize databases using PostgreSQL. Ideal for those integrating PostgreSQL into web or enterprise applications.

**Modules Covered:**

1. PostgreSQL Architecture for Developers
  2. Data Types and Schema Design
  3. Advanced SQL Queries
  4. Stored Procedures and Functions
  5. JSON and PostgreSQL
  6. Working with Extensions
  7. ORMs and PostgreSQL Integration
  8. Performance Tuning for Developers
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## PostgreSQL Essentials

**Duration:** 10 Hours

**Course Fee:** R10,900

**Start Anytime – Flexible Scheduling**

**Course Overview:**

A beginner-friendly overview of PostgreSQL, this course is designed to get you started with using PostgreSQL efficiently and confidently for small to mid-scale applications.

**Modules Covered:**

1. Introduction to Databases
  2. Installing and Setting up PostgreSQL
  3. Basic SQL Commands
  4. Using pgAdmin and CLI
  5. Simple Backup and Restore
  6. Basic User Management
  7. Simple Performance Tips
  8. Lab Exercises
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## PostgreSQL Administration, Optimization and Replication

**Duration:** 10 Hours

**Course Fee:** R15,900

**Start Anytime – Flexible Scheduling**

**Course Overview:**

This course focuses on key administrative features of PostgreSQL including replication, optimization techniques, and administrative best practices.

**Modules Covered:**

1. PostgreSQL Configuration Tuning
  2. Streaming Replication Setup
  3. High Availability Concepts
  4. Performance Monitoring Tools
  5. Indexing and Query Plans
  6. Security Hardening
  7. Disaster Recovery Techniques
  8. Admin Best Practices
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## PostgreSQL Performance Tuning

**Duration:** 10 Hours

**Course Fee:** R15,900

**Start Anytime – Flexible Scheduling**

**Course Overview:**

Learn how to analyze, diagnose, and improve the performance of PostgreSQL databases through a combination of practical exercises and real-world examples.

**Modules Covered:**

1. Query Optimization Techniques
  2. Using EXPLAIN and ANALYZE
  3. Indexing Strategies
  4. Workload Balancing
  5. Configuration Tuning
  6. Monitoring and Logging
  7. Performance Metrics
  8. Optimization Tools
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## PostgreSQL Advanced DBA

**Duration:** 20 Hours

**Course Fee:** R16,900

**Start Anytime – Flexible Scheduling**

## Course Overview:

Aimed at experienced DBAs, this advanced course covers complex PostgreSQL topics including clustering, advanced replication, and system-level optimization.

## Modules Covered:

1. Advanced Configuration Management
2. Logical Replication and Sharding
3. Clustering with Patroni and etcd
4. Advanced Backup Strategies
5. Managing Large Databases
6. System-level Tuning
7. Advanced Security Techniques
8. Troubleshooting Complex Scenarios

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## Training Format

- Mode: 100% Online (via MS Teams or Google Meet)
- Trainer: Real Lecturer (Live and Interactive)
- Support: Flexible scheduling and 1-on-1 attention

## Certification

- Certificate of Completion from The School of IT International Pty Ltd
- International Exams: Optional and billed separately based on current exchange rates

## Banking Details for Payment

- Bank: FNB
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  - Branch code: 200512
  - Branch Name: SOMERSET WEST
  - Reference: Your Full Name + Course Name
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