



Date: 18 January 2023

Training for: 219985983 - MS MAHLANGU (ID: 9912055421082)

Students in NDip: Information Technology (Software Development) at Tshwane University of Technology study the following fields

- Database Programming using Oracle products (SQL, PL/SQL) and other databases (SQLServer, MySQL, Ms Access)
- Programming using Embarcadero C++ builder
- Programming using Microsoft Visual Studio (C++, Visual Basic, ASP.NET, C#)
- Systems analysis and design methods (Structured methods and UML)
- Microsoft Office Applications (Ms Word, Ms Excel, Ms Access, Ms PowerPoint)
- Operating systems (Windows and Linux), hardware and networks

A typical IT third year student will be able to

- Install and maintain software and hardware
- Maintain networks
- Perform maintenance on databases, such as maintaining users and roles, as well as maintaining tables
- Perform data-entry on any system
- Build applications built on Oracle platform, or maintain such systems
- Perform SQL operations on databases (Ms Access, Oracle, SQLServer, MySQL)
- Update or create documentation for existing systems
- Build applications on C++ builder or Visual C#, or maintain such systems
- Build applications and web applications in Visual Studio or PHP (some students), or maintain such systems
- Assist students in computer classes for any of Ms Word, Ms Excel, Ms Access, Ms PowerPoint, Windows XP,
- Windows 7, Windows 8, Windows 10, Linux

Students are required to do a compulsory subject called Industry Exposure (IDC30BT) during their third year. For this subject they complete a project at the campus. They also need practical experience at an approved employer. Students must find an employer who is willing to provide this experience. The total duration of this experience is *at least* 6 months full-time employment. Longer periods of training are also acceptable, if the student and employer agree. Remuneration is agreed between the employer and the student. Students are required to write reports to indicate what they have done. Employers are expected to verify that the reports are accurate regarding both the work done and the hours spent at the workplace. No actual marking of the reports is required.

For any further enquiries, please phone me at the contact number.

Regards

Mr. Jabulani K. Makhubela.

Lecturer and WIL Coordinator at Computer Science Department (Emalahleni Campus)

Faculty of ICT at Tshwane University of Technology

Contact (013) 653 3174 or 078 303 6149 or makhubelaJK@tut.ac.za