# COMPUTING DIPLOMA TYPE PROGRAMS
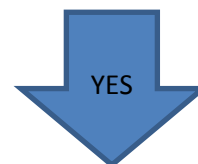
# CIPS, CTAB OR JOINT ACCREDITATION

**Does your program meet all of these curriculum elements?**

## Level 1 Assessment

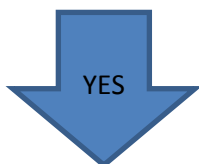| Level: Knowledge | Level: Foundational Understanding | Level: Development of Competencies/Capabilities |
|---|---|---|
| Strategic Planning | Computer Architecture | Systems Development Lifecycle |
| IT in organizational or application context | Internet Applications | Data Modelling |
| Information and requirements gathering | Software tools | Process Modelling |
| Quality Control and Assessment | Data Management | Systems Integration |
| Risk and Security Management | Operating Systems | Systems Analysis and Design |
| | Computer Networks | Database design |
| | Programming | Quality assurance and testing |
| | Standards of Practice | Project Management |
| | | User Support |
| | | Security, Network, and Admin Control |
| | | Interpersonal and teamwork |
| | | Ethics and the legal impact of IT |

NO

YES

# Level 2 Assessment

**Does your program include a minimum of 3 of the following CTAB NTB for IT Program Outcomes?**

⬇

• Analyze, build, implement, and maintain computer systems and applications
• Prepare, a quality assurance plan for the testing and evaluation of software.
• Install, configure, deploy, and integrate fully tested programs.
• Apply advanced project management techniques.
• Administer information technology systems and formulate solutions.
• Analyze and maintain hardware and operating systems.
• Design and maintain security features involved with the processing and transfer of information.
• Design and maintain systems security in networking and applications development.
• Develop protocols, topologies, and mobile technologies.
• Design Relational Database Management Systems (RDMS) and Object-Oriented Database Management Systems (OO-DBMS).
• Apply SAD fundamentals, UML, and software engineering for systems analysis and design.
• Analyze and design visual and non-visual approaches to Object-Oriented Programming.
• Consider all non-OOP, 3GLs, and 2GLs, excluding scripting languages.
• Manage Network Systems.
**AND**
Includes the following **General Requirement**
(see the General Requirements National Technology Benchmarks )
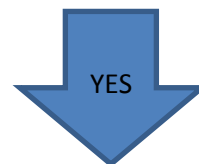
⬇ YES

**Seek CTAB accreditation**

**Does your program also include the following elements?**

⬇

Development or ability to develop a Technology Report (Capstone Project) related to IT Development of capability in one or more of the following areas*:
• Apply basic knowledge of algebra, matrix manipulation, trigonometry, and intro calculus; and/or
• Apply the knowledge of statistical processes; and/or
• Apply the knowledge of advanced algebra, integral and differential calculus methodologies; and/or
• Apply the knowledge of discrete/finite mathematics and logic systems

*Note: advanced math is a requirement for CTAB. This typically translates into discrete math or alike type of component embedded into an IT course. Programs also need to include some coverage of statistics (either in a math course or embedded into other courses).

⬇ YES

**Joint Accreditation**

⬇ NO

**Meets the Level 1 Assessment requirements**

⬇

**Seek CIPS accreditation**