# Computing Diploma Type Programs

CIPS, CTAB or Joint Accreditation

Does your program meet all of these curriculum elements?

## Level 1 Assessment

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

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

**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)

- 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).

Joint Accreditation

Meets the Level 1 Assessment requirements

Seek CTAB accreditation

Seek CIPS accreditation