

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

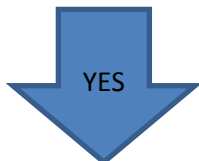
Does your program include a minimum of 3 of the following CTAB NTB for IT Program Outcomes?



- 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](#))



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).



Joint Accreditation



Meets the Level 1 Assessment requirements



Seek CIPS accreditation