

3415 Program Vocational Learning Outcome

Program Vocational Learning Outcomes describe what graduates of the program have demonstrated they can do with the knowledge and skills they have achieved during their studies. The outcomes are closely tied to the needs of the workplace. Through assessment (e.g., assignments and tests), students verify their ability to reliably perform these outcomes before graduating.

1. identify, analyze, design, develop, implement, verify and document the requirements for a computing environment.
2. diagnose, troubleshoot, document and monitor technical problems using appropriate methodologies and tools.
3. analyze, design, implement and maintain secure computing environments.
4. analyze, develop and maintain robust computing system solutions through validation testing and industry best practices.
5. communicate and collaborate with team members and stakeholders to ensure effective working relationship.
6. select and apply strategies for personal and professional development to enhance work performance.
7. apply project management principles and tools when responding to requirements and monitoring projects within a computing environment.
8. adhere to ethical, social media, legal, regulatory and economic requirements and/or principles in the development and management of the computing solutions and systems.
9. investigate emerging trends to respond to technical challenges.
10. analyze, plan, design, implement and administer computer systems and cloud solutions.
11. research, design, deploy, configure, troubleshoot, maintain, upgrade, and decommission computing system infrastructures.
12. select and apply scripting tools and programming languages to automate routine tasks.
13. install, monitor, optimize and administer a database management system in response to specified requirements.
14. design, implement, and administer technical support processes for computing system infrastructures that aligns with industry best practice.

15. develop strategies for entrepreneurial growth and development that enhance career opportunities and maintain currency with the IT industry.