

"Technology is just a tool. In terms of getting the kids working together and motivating them, the teacher is the most important."

*Bill Gates*



**CHARLES TELFAIR**  
I N S T I T U T E



Government of **Western Australia**  
South Metropolitan **TAFE**

(National ID: ICT50715)

# DIPLOMA OF SOFTWARE DEVELOPMENT

# WHAT IS IT?

This qualification enables you to become competent in programming and software development. A person with this qualification would create new software products to meet an initial project brief or customise existing software products to meet customer needs.

More specifically, this qualification will provide you with practical skills and knowledge in coding systems to

develop computer programs. You will learn how to develop business software applications and progress them through the design, development, and implementation phases. You will also learn skills required for on-going development and monitoring of software programs, incorporating testing, customising, disaster recovery, and project integration and management.

## WHY A DIPLOMA OF SOFTWARE DEVELOPMENT AT CTI?

- ✓ **Experience:** CTI's faculty of IT has been at the forefront of IT Education in Mauritius for over 15 years. Our graduates in IT are employed in the leading IT organisations locally and overseas.
- ✓ **Innovation:** There is a strong focus on the use of the latest technologies and concepts.
- ✓ **Showcase Portfolio:** By the end of the course students will have gone through a number of projects which will enable them to display their talents to potential employers.
- ✓ **Strong practical focus:** The School's state-of-the-art facilities provide students with the necessary services to access the best resources in preparation of the world of work.
- ✓ **Employability Advantage:** This course helps students develop a comprehensive and unique combination of software, hardware and networking skills which is in high demand in the IT Industry.
- ✓ **Industry Network:** A number of teaching staff are currently working in industry; students work on real world projects and undertake internships in the best IT Solution Providers locally or overseas.

## ENTRY REQUIREMENTS

For admission to South Metropolitan TAFE, applicants must satisfy minimum academic entry as well as English Competency requirements - *Students are assessed on an individual basis.*

## CAREER POSSIBILITIES

Successful completion provides you with the opportunity to gain employment as a Programming/Software Engineer, Software Applications Specialist, Software Developer.

# COURSE STRUCTURE

## 25 Study Units

### Semester 1

ICTICT418	Contribute to copyright, ethics and privacy in an IT environment AUU49
ICTPRG402	Apply query language AUV53
ICTPRG403	Develop data-driven applications AUV67
ICTPRG404	Test applications AUV58
ICTPRG405	Automate processes AUV52
ICAPRG406A	Apply introductory object-oriented language skills AUV65
ICTPRG410	Build a user interface AUV50
ICAPRG414A	Apply introductory programming skills in another language AUV79
ICTPRG415	Apply skills in object-oriented design AUV61

### Semester 2

ICTPRG419	Analyse software requirements AUV60
ICTPRG418	Apply intermediate programming skills in another language AUV62
ICTPRG527	Apply intermediate object-oriented language skills AUV94
ICTPRG502	Manage a project using software management tools AUV75
BSBMGT502	Manage People Performance AUI44
BSBFIM501	Manage Budgets and Financial Plans AUH01
BSBRISK501B	Manage Risk S8081
ICTICT403	Apply software development methodologies AUU46

### Semester 3

ICTPRG523	Apply advanced programming skills in another language AUW10
ICTPRG501	Apply advanced object-oriented language skills AUV71
ICTPRG529	Apply testing techniques for software development AUV95
ICTPRG503	Debug and monitor applications AUV76
ICTPRG504	Deploy an application to a production environment AUV81
ICTPRG520	Validate an application design against specifications AUV98
ICTPRG506	Design application architecture AUV83
ICTPRG507	Implement security for applications AUV80

## Study Pathways

On completion of a Diploma you can continue on to a university degree with exemptions

**Disclaimer:** Please note that CTI/South Metropolitan TAFE reserves the right to change the content and/method of assessment, to change or alter tuition fees of any unit of study, to withdraw any unit of study which it offers, to impose limitations on enrolment in any unit or program and/or to vary arrangements for any programme.

## DELIVERY PLAN

### Duration:

The programme is run over 3 semesters (one and a half academic year)

### Starting Dates:

Two intakes per year -  
February & August

## APPLICATION PROCEDURES

- / Students must complete the prescribed application forms available at our Future Student Centre or at [www.telfair.ac.mu](http://www.telfair.ac.mu) and should submit relevant copies of the following documents:
- / Copies of educational qualifications
- / Two passport-size photographs
- / Copy of National Identity Card or Birth Certificate

*(The originals of all the above documents for certification purposes are needed.)*

## APPLICATION DEADLINE

It is recommended to register at least 5 weeks before the start date of Programme.

Please call us on 4016511 or email us on [marketing@telfair.ac.mu](mailto:marketing@telfair.ac.mu)

FOR MORE INFORMATION, PLEASE CONTACT THE FUTURE STUDENTS CENTRE



[marketing@telfair.ac.mu](mailto:marketing@telfair.ac.mu)



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