

**NEW ZEALAND INSTITUTES OF TECHNOLOGY AND POLYTECHNIC
QUALIFICATIONS IN INFORMATION & COMMUNICATIONS TECHNOLOGY**

PRESCRIPTION: PR50n PROGRAMMING

AIM OF MODULE:	The student will use the knowledge and skills acquired in PD500 & PP400, or PP490 & PP590, and PP51n to write scaled-down versions of standard programs, thus developing fluency and efficiency in their application.
CREDITS:	14
KNOWLEDGE ASSUMED FROM:	PP51n
STUDENT LEARNING HOURS:	140
CONTENT REVISED:	2000
PRESCRIPTION EXPIRY DATE:	November 2013
NOTE:	This module may be awarded to a student for each language which is learnt to the required standard. The various modules will be identified by the last digit. The language name should be added to the end of the module title.

Level and Assessment Schedule

TOPICS	Highest Skill Level				Suggested Assessment Percentage
	R	C	A	P	
1. Writing Programs			*		60
2. Program Testing			*		10
3. Writing Documentation			*		10
4. Program Fixing			*		10
5. Program Correction			*		10
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LEARNING OUTCOMES

The student will:

- A 1 Write well designed programs from given specifications.
- A 2 Design appropriate combinations of test data and ensure results match specification.
- A 3 Document the development of programs and the source code according to installation standards.
- A 4 Identify deviations from installation standards in documentation, code, or procedures, and produce the corrected versions.
- A 5 Given source code with simple logic errors, identify them and correct them without recourse to the computer.

CONTENT

- Data structures including arrays
- Simple file handling
- Interactive dialogue
- Commercial report programs
- Data validation
- Simple exception handling
- Simple file update
- All standard syntax options
- Efficiency considerations