

NATIONAL CERTIFICATE IN INDUSTRIAL MEASUREMENT AND CONTROL - LEVEL 4*

Programme Codes:	Wintec: TE0901	MoE: NC5583
Programme Level:	4	
Credits:	228	
Effective Date:	January 2017	
Last Date of Enrolment:	31.12.16	
Last Date of Assessment:	31.12.18	

This programme fulfils the off-job requirements for the National Certificate in Industrial Measurement and Control (Level 4). Candidates who wish to gain the award of the National Certificate must, in addition, complete the on-job unit standards: see Section 7 Group C of these regulations.

These regulations should be read in conjunction with the Institute's Academic Regulations, clause 2 General Programme Regulations.

1. Admission and Entry

1.1 Candidates are required:

- to have successfully completed the requirements of the National Certificate in Electrical Engineering (Level 2), or equivalent qualification, **or**
- to demonstrate experience and skills equivalent to the above, **or**
- to demonstrate reasonable likelihood of success in the programme.

1.2 This programme comprises both on-job and off-job requirements for the National Certificate in Industrial Measurement and Control (Level 4). Candidates who wish to gain the off-job modules are required to currently be employed in a position with industrial measurement and control responsibilities in an industrial context.

1.3 Where there are more applications than the number of places available, selection will be based on candidates' previous educational attainment and other relevant experience.

1.4 Candidates who have English as a second language are required to have an International English Language Test System (IELTS) score of 5.5, with no individual band score lower than 5.0; or equivalent.

2. Transfer of Credit

Up to 100% transfer of credit is available for this programme (both formal transfer of credit and recognition of prior learning).

3. Enrolment

Only part-time enrolment is available in this programme.

4. Programme Requirements

4.1 Every candidate for the National Certificate in Industrial Measurement and Control (Level 4) shall to the satisfaction of the Academic Board follow a part-time programme of study for a period of normally two years.

4.2 Each candidate's programme of study shall comprise modules totalling 228 credits, as listed in section 7 of these regulations, as follows:

- 4.2.1 Candidates whose study is funded by the Electrotechnology Industry Training Organisation (ETITO) are required to complete the modules in groups A and C, and the balance of credits from modules in group D.
- 4.2.2 Candidates whose study is funded by the Ministry of Education or other source of funding (including self-funding) will complete the modules in groups B and C, and the balance of credits from modules in group D.

5. Completion of the Programme

A candidate may take up to five years to complete this programme, unless an extension is granted by special permission of the Head of School/Centre Director.

6. Assessment

Assessment in this programme is competency based; therefore, aegrotat consideration is not available.

7. Award of the Qualification

7.1 Candidates who successfully complete the programme requirements as specified in these regulations will be eligible to apply to the New Zealand Qualifications Authority for award of the National Certificate in Industrial Measurement and Control (Level 4).

7.2 To complete the on-job unit standards in groups C and D, candidates will need to be employed or gain employment in a position with industrial measurement and control responsibilities in an industrial context.

8. Schedule of Modules

Group A - Off job Modules (ETITO)

Module Code	Module Title	Prerequisites	Credits	Level
TEMC3101	IMC Level 3 (ITO distance learning)		25	3
TEMC3102	IMC Level 3 (ITO block course)	TEMC3101	26	3
TEMC3103	IMC Core Electronics (ITO distance learning)		11	3
TEMC3104	IMC Core Electronics (ITO block course)	TEMC3103	29	3
TEMC4101	IMC Level 4 (ITO distance learning)		21	4
TEMC4102B	IMC Level 4 (ITO block course)	TEMC4101	25	4
TEMC2101	Write a short report (ITO distance learning)		3	2

Group B - Off job Modules (MOE)

Module Code	Module Title	Prerequisites	Credits	Level
TEMC3201	IMC Level 3 (distance learning)		25	3
TEMC3202	IMC Level 3 (block course)	TEMC3201	26	3
TEMC3203	IMC Core Electronics (distance learning)		11	3

TEMC3204	IMC Core Electronics (block course)	TEMC3203	29	3
TEMC4201	IMC Level 4 (distance learning)		21	4
TEMC4202	IMC Level 4 (block course)	TEMC4201	24	4
TEMC2201	Write a short report (distance learning)		3	2

Group C - On job Compulsory Modules

To complete these on-job unit standards, candidates will need to be employed or gain employment in a position with industrial measurement and control responsibilities in an industrial context.

Module Code	Module Title	Prerequisites	Credits	Level
TE01178A	Follow safe practices in an electrical workplace		3	2
TE02631A	Maintain pressure measurement devices	*	10	3
TE02633A	Maintain level measurement devices in industry	*	10	3
TE02635A	Temperature measurement devices used in industry	*	10	3
TE02637A	Maintain flow measurement devices used in industry	*	10	3
TE02640A	Maintain control valve actuators and positioners	*	5	3
TE02667A	Install & service pneumatic or electro-pneumatic	*	5	3
TE04357A	Tune or adjust a plant control loop	*	2	4
TE09180A	Install, replace, test, commission instrumentation	*	10	4

* have recommended pre-requisites

Group D - On job Elective Modules

Module Code	Module Title	Prerequisites	Credits	Level
TE02639A	Maintain and service control valves	*	10	3
TE02642A	Maintain pH measuring system for chemical analysis	*	4	4
TE02643A	Maintain a conductivity measuring system	*	4	4
TE02644A	Maintain a dissolved oxygen measuring system	*	4	4
TE02645A	Maintain consistency or viscosity measuring system	*	4	4
TE02646A	Maintain analytical monitoring equipment	*	4	4
TE02647A	Maintain humidity or dewpoint monitoring equipment	*	4	4
TE02648A	Maintain & calibrate density monitoring equipment	*	4	4
TE02657A	Maintain pneumatic controllers	*	5	4
TE02664A	Maintain hydraulic or electro-hydraulic equipment	*	3	3

TE04356A	Maintain chromatograph	*	4	4
TE24884A	Maintain conditioning modules and controllers	*	6	4

* have recommended pre-requisites