

Industrial Measurement and Control (Theory 4) (Level 4)

Leading to the award of the New Zealand Certificate in Industrial Measurement and Control (Theory) (Level 4)

Wintec code:	TE1601	MoE:	NZ2252
Level:	4	Credits:	154
Owner:	Centre for Trades	Effective Date:	July 2020

These regulations should be read in conjunction with the Institute's Academic Regulations.

1. Transition Arrangements

- 1.1 There is an underpinning principle in the application of these transition regulations, that no student will be disadvantaged by these arrangements;
- 1.2 This programme is replacing the TE0901 - National Certificate in Industrial Measurement and Control (Level 4) programme;
- 1.3 All students enrolling for the first time in semester 1, 2016 must enrol into the New Zealand Certificate in Industrial Measurement and Control (Theory) Level 4 programme;
- 1.4 Students enrolled on the TE0901 programme in 2015:
 - a) who **have** completed all requirements of the first year of study will enrol in the second year of that programme. No transition to the second year of the New Zealand Certificate programme will be available until semester 1, 2017;
 - b) who **have not** completed all requirements of the first year of study must complete them before the end of semester 1, 2016, or, in consultation with the Centre Director/Team Manager or designated equivalent, they may transition to this new programme;
- 1.5 Students enrolled on the TE0901 programme who complete all year two requirements in 2016, **with the exception of the core electronic modules**, must transition to this new programme from semester 1, 2017 and undertake the replacement electronic modules IMCT316 and IMCT317
- 1.6 Any students enrolled on the TE0901 programme beyond semester 1, 2017 may, in consultation with the Centre Director/Team Manager or designated equivalent, transition to this new programme;
- 1.7 The last date of assessment for the TE0901 programme is 31 December 2019 and any students enrolled on that programme must complete it by that date or transition to this new programme.

2. Admission and Entry

- 2.1 Candidates can gain entry to this programme by meeting one of the following criteria:
 - a) Based on NZ high school achievement (secondary school study):
 - 40 credits at NCEA Level 2; including 10 Literacy credits at NCEA Level 2; 10 Numeracy credits at NCEA Level 1; and 14 credits in a Science subject at NCEA Level 2; or
 - a recognised equivalent; **or**
 - b) Based on study completed at a NZ tertiary institution
 - A relevant qualification at NZQF Level 2; or

Programme Regulations for:

- A recognised equivalent qualification; or
- Equivalent knowledge, skills and experience.

2.2 English Language Requirements

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; or equivalent.

3. Selection Criteria

3.1 All applicants not meeting the requirements of section 2 Admission and Entry will be interviewed for suitability for the programme. Should spaces in the programme become limited, selection will be based on:

- Academic history;
- Prior relevant qualifications gained.

4. Transfer of Credit

4.1 100% transfer of credit is available for this programme (both formal transfer of credit and recognition of prior learning).

5. Programme Requirements

5.1 Candidates enrolled on the Industrial Measurement and Control (Theory 4) (Level 4) programme shall to the satisfaction of the Academic Board follow a programme of study for a period of normally not less than two years part time study.

5.2 Each candidate's programme will comprise all modules as listed in Section 6 of these regulations, totalling a minimum of 154 credits.

5.3 Candidates are required to complete IMC312 as a pre-requisite for all first year modules.

5.4 Candidates are required to complete IMC421 as a pre-requisite for all second year modules.

6. Completion of the Programme

6.1 Candidates may take up to three years to complete this programme, unless an extension is granted by *special* permission of the Centre Director, or designated equivalent.

7. Award of the Qualification

7.1 Candidates who successfully complete the requirements specified in clause 3.2 of this programme will be eligible for the award of the New Zealand Certificate in Industrial Measurement and Control (Theory) (Level 4).

8. Schedule of Modules

Note: no value in the pre/co-requisite columns means there are no pre/co-requisites for that module.

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites	Assessment Standard
IMCT312	Industrial Measurement Principles	3	15			24886 28077 28078 2649
IMCT313	Industrial Measurement Systems	3	16	IMCT312		2630 2632 2634 2636
IMCT314	Industrial Control Systems	3	13	IMCT312		2638 5926

Programme Regulations for:

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites	Assessment Standard
						28083
IMCT315	Analytical and Weight Measurement Systems	3	15	IMCT312		28080 28081 28082
IMCT316	Electronics Selection & Fault-Finding Techniques	3	15			8195 20615 26727
IMCT317	Applied Digital & Analog Electronics	3	15			5934 15849 28079
IMCT421	Process Control Systems	4	10	IMCT312 IMCT313 IMCT314 IMCT315		2662 2654
IMCT422	Process Control Loops	4	13	IMCT421		2655 28076
IMCT423	Installation of Industrial Instrumentation	4	14			24887 24888 24889
IMCT424	IMC in Explosive Atmospheres	4	10			17054 26739
COMS201	Report Writing	2	3	Nil	Nil	3492
IMCT201	Workplace Safety	2	10	Nil	Nil	27911
COMS302	Stakeholder Engagement	3	5	Nil	Nil	27910