

## Report of Validation Panel for a Special Purpose, Minor or Supplemental Award

Date of Meeting: June 16<sup>th</sup>

2016

**Named Award:** Certificate  
**Programme Title:** Certificate in MEP BIM Applications  
**Award Type:** Special Purpose Award  
**NFQ Level:** 7  
**Intakes Commencing:** September 2016  
**ECTS/ACCS Credits:** 15

### PANEL MEMBERS

Name / Function / External Institution OR CIT Academic Unit
Dr Joseph Harrington, Head of School, School of Building and Civil Engineering, CIT (Chairperson)
Richard Farrell, Director, Engineering Design Consultants Ltd. (EDC)
Ted McKenna, Lecturer, Department of Civil, Structural & Environmental Engineering, CIT

### IN ATTENDANCE

Name / Function / External Institution OR CIT Academic Unit

### PROPOSING TEAM MEMBERS

Name / Function / Academic Unit
Daithi Fallon, Head, CAMMS Centre, CIT
Mike McGrath, Manager, CAMMS Centre, CIT
Paul Keane, CAMMS Centre, CIT
Willie Bateman, Department of Process, Energy & Transport Engineering
Paul O' Sullivan, Department of Department of Process, Energy & Transport Engineering

### BACKGROUND TO THE PROPOSED PROGRAMME

This programme provides learners with an opportunity to up-skill in the area of 3-D modelling of MEP built environment systems. The programme incorporates three approved modules covering the areas of Revit Introduction, Revit MEP (Mechanical, Electrical & Plumbing) and AutoCad Plant 3D.

## FINDINGS OF THE PANEL

*NOTE: In this report, the term "Requirement" is used to indicate an action or amendment which in the view of the Panel **must** be undertaken prior to validation and commencement of the Programme. The term "Recommendation" indicates an item which the Course Board (or other relevant Institute unit) should implement at the earliest stage possible, and appropriate implementation of which should be the subject of ongoing monitoring.*

The panel would like to commend the programme proposers on the programme documentation and their engagement with the panel during the meeting.

The Panel notes that the title for the Programme proposed at the Validation Panel Meeting of 'BIM compatible/BIM compliant software' is different to the original title proposed at the Faculty Board of Studies of '3D Systems Design'.

On the basis of a review of the documentation submitted and the discussion held with the programme proposers the Panel recommends that the title of the programme be changed to 'Certificate in MEP BIM Applications' but subject to the explicit inclusion of 'clash detection' and associated matters in the appropriate modules including:

- Overview of Industry BIM Standards
- Incorporation of third party multi-discipline reference models
- Application of clash rendition/detection technology
- Methodologies for dealing with clashes

The Panel notes that this will involve updating at least one module proposed for the Programme.

Once such changes are made to the individual modules then the recommended title is considered by the Panel to reflect the module content.

Please note that the recommended title (Certificate in MEP BIM Applications) is the Programme Title presented on Page 1 of this Validation Panel Report.

On consideration of the documentation provided and discussion of the programme with the proposers, the Panel has arrived at the following Findings, Requirements and Recommendations:

### 1. Validation Criteria

#### 1.1 Is there a convincing need for the programme with a viable level of applications?

Overall Finding: Yes

**Finding(s):** The panel finds that there is a need for the programme with a viable level of interest in industry for Revit-based modules and programmes as evidenced by a cohort of part-time students from the local consulting and contracting industries who have registered on a REVIT module delivered by CAMMS in this current academic year; the demand for Revit skills in the MEP industry is client-led.

**Recommendation(s):**

#### 1.2 Are the level and type of the proposed award appropriate?

Overall Finding: Yes

**Finding(s):** The panel find that the level and type of the modules for the programme are appropriate to the intended target student cohort and to the graduate skills being developed (subject to the requirement outlined above).

#### 1.3 Is the learning experience of an appropriate level, standard and quality?

Overall Finding: Yes

**Finding(s):** The panel find that the programme and the individual modules are at the appropriate level, standard and quality (subject to the requirement outlined above).

**1.4 Is the programme structure logical and well designed (including procedures for access, transfer and progression)?**

Overall Finding: Yes

**Finding(s):** The panel is satisfied that the structure of the programme is logical, well designed and meets the needs of learners (subject to the requirement outlined above). Students who take the programme may ultimately progress to the Level 7 BEng in Building Services Engineering in CIT.

**1.5 Are the programme management structures adequate?**

Overall Finding: Yes

**Finding(s):** The programme will operate and will be managed by the CAMMS Centre which has a long and distinguished track record of successfully managing such programmes. The programme will be attached to and will be the responsibility of the Department of Process, Energy and Transport Engineering in the School of Mechanical, Electrical & Process Engineering.

**1.6 Are the resource requirements reasonable?**

Overall Finding: Yes

**Finding(s):** The resource requirements are currently in place; no additional resources are required.

**1.7 Will the impact of the programme on the Institute be positive?**

Overall Finding: Yes

**2. Other Findings**

The Panel discussed the content of the approved modules with the programme proposers. The Panel recommends that the updating of the module(s) as outlined above be completed at the earliest possible opportunity.

**CONCLUSION**

Based on the above findings, the Panel recommends to Academic Council:

That the Programme be validated for five academic years, or until the next programmatic review, whichever is soonest, subject to implementation of the Requirements above, and with due regard to the Recommendations made.

## Semester Schedules

### Stage 1 / Semester 1

Mandatory									
Mod Code	Module Title	Co-ordinator	Level	Credits	FT Contact Hours	PT Contact Hours	Course Work	Formal Exam	
MANU6006	REVIT Introduction (Approved)	MICHAEL J O MAHONY	Fundamental	5.0	4.00	3.00	100.0	0.0	
MECH7022	3D Piping Design (Approved)	MICHAEL J O MAHONY	Intermediate	5.0	4.00	3.00	100.0	0.0	

### Stage 1 / Semester 2

Mandatory									
Mod Code	Module Title	Co-ordinator	Level	Credits	FT Contact Hours	PT Contact Hours	Course Work	Formal Exam	
MECH7023	Revit MEP (Approved)	MICHAEL J O MAHONY	Intermediate	5.0	4.00	3.00	100.0	0.0	

APPENDIX