Asset Management Reference Group

Notes for meeting held on Thursday 25 June 2020 by Microsoft Teams

Attendees   Priyani de Silva-Currie (Just Add Lime), Peter Higgs (IPWEA), Steve Browning (Morrison Low), Gary Porteous (WSP), Nicola Chisnall (Wellington Water), Adrian Ferguson (Weltec), James MacKay (Weltec), Barry Wright and John MacDonald (Waka Kotahi NZ Transport Agency).

Connexis   Fiona Malloch (Area Manager), Marie Cross (Qualification Developer), Ashley Chisholm (Quality Assurance), Michele Miller (Qualification Developer).

Apologies   Tim Armitage (Armitage Consultancy Limited), Mike Grumball (GM Learning Solutions, Connexis), Eric Sim (Whanganui District Council), Stacy Goldsworthy (CCNZ), Jonathan Morris (WSP), Julie O'Hara (NZDF).

Meeting began at 10.00 am with welcome and introductions.

The New Zealand Diploma in Infrastructure Asset Management (Level 6) is due for review in 2020. Marie outlined the qualification review process and gave a brief RoVE update.

Discussed the small amount of feedback from the website consultation. Comments came from two people. Will need to contact graduates, learners and employers by phone or another method to increase the input from them.

1. Qual includes a statement that graduates will acquire in depth technical knowledge which I would question as there is a wide range of assets with quite different technical characteristics and demands that one person cannot cover in any depth.
2. A key need in my view is for asset specific skills in relation to pavements or bridges or buildings.
3. Some of the language needs updating. Regarding whether people develop or implement, every role is different and having some adaptablity to the course would be very useful. I am actually unable to sign off on the risk management component as although I have analysed and developed a risk management plan, I have not yet implemented it to a point that we have seen risk improvement.

There have been 83 enrolments in the period 2017-2020 but only nine completions and 20 withdrawals.   A possible reason for low completion includes the point in (3) above.

Noted a range of training badges have been developed which has a progression of learning. See IPWEA website for event information. The first four badges are aligned to IIMM, the next badges align with REG Asset Management Framework. Their strength is the New Zealand context, although they are being promoted internationally e.g. Pacific, Canada.

There is also a Professional Certificate run by IAM (Institute of Asset Management), an international group.

A degree apprenticeship has recently been developed by Weltec. They closely aligned learning outcomes to NZD IAM so there could be progression to the degree and some cross-crediting. Weltec is keen to support alignment and staircasing.

It would be useful for New Zealand to have a certification progress based on this Diploma. (similar to CPEng). IPWEA is in discussions with Asset Management Council (Australia) who are to expand into New Zealand. It is possible IPWEA would certify the "how to" aspects while AMC would certify more complex skills.

It would also be useful if the NZD IAM and unit standards aligned more with IIMM and REG. Although IIMM is being reviewed this year, with a November release date, the principles haven't changed since 2015 version was published.

Need to communicate advantages of the NZD IAM to employers and potential trainees.

Actions:

Propose a smaller group meet to align qualification and unit standards with IIMM and REG, followed by a full Reference Group meeting. (MM)

Career pathway to be prepared to share with wider group (JM)

Next meetings:

16 July: Document review (smaller group)

30 July: Feedback on Reviewed Qualification Review Documents (whole RG)

Notes from meeting held 16 July by Microsoft Teams.

Present: Steve Browning, Jonathon Morris, John McDonald, Michele Miller.

The purpose of the meeting is to more closely align the qualification and unit standards to the IIMM and REG. (Road Efficiency Group (REG) (2019) *Asset Management Competency Framework* available from...)

Noted the first four digital badges align with IIMM. Refer to the table below.

ID	v	Title	L	Cr	badge	module	REG
11429	7	Contribute to infrastructure asset management planning	6	30	203, 204	1, 3	5
17305	5	Use optimised decision-making process for infrastructure asset management	6	15	203	3	5
17308	5	Conduct risk management in an infrastructure asset management context	6	15	203	3	4, 5
23589	3	Explain process, and develop and measure levels of service, for infrastructure assets	5	10	202	2	4
23590	2	Demonstrate knowledge of infrastructure asset information management	6	10	202, 204	2, 4	3
23591	3	Demonstrate knowledge of financial and economic analysis for infrastructure asset management	6	15	203	3	4
23592	3	Undertake demand management analysis for infrastructure assets	5	10	202	3	4
29486	1	Demonstrate knowledge and understanding of laws and standards applicable to infrastructure asset management	4	5	101	1	1
29544	1	Apply professional body rules and ethics as an infrastructure asset management practitioner	5	6			
29545	2	Work professionally as an infrastructure asset management practitioner	6	6			

Suggest adding REG to the general conditions for programmes in the qualification.

Note these unit standards are due for review in 2020. Some unit standards already have IIMM and/or NAMS in the Guidance Information. Should all IAM US refer to IIMM and/or NAMS?

17308 Risk 3.3 is no longer valid as it's written. No-one designs policies, instead implements existing policy. Suggest "is implemented in accordance with organisational requirements."

Are the unit standards in the diploma equivalent to these first year Weltec modules? Is similar language used for the learning outcomes?

1. Overview
2. Levels of service
   Data
3. Risk
   Optimised decision-making
   Finance
4. Data Systems
   Benefits

Discussed certification process. The NZD Infrastructure Asset Management could be the first level for Certified AM Technician.

Notes from meeting held on 30 July by Microsoft Teams and phone

Present: Steve Browning, Peter Higgs, Gary Porteous, Tim Armitage, Jonathon Morris, Priyani de Silva-Currie, Adrian Ferguson, Michele Miller.

Meeting opened at 10 am. The purpose of the meeting is to discuss the changes suggested to the qualification and unit standards.

Qualification:

- Added reference and links to IIMM guidelines, Asset Management Competency Framework and ISO 55000 series to General conditions for programme, updated evidence for consistency, and award of the qualification.
- Changed GPO 2 *from* Prepare, implement and review of infrastructure asset management planning for an organisation *to* Contribute to the preparation, implementation and review of infrastructure asset management planning for an organisation. This reflects current industry practice where workplaces already have asset management plans.
- Changed credit value for GPO 2 *from* 20 credits to 30 credits so the credit values of all GPO add up to 140 credits.

Unit standards:

ID	v	Title	L	Cr	Changes
11429	7	Contribute to infrastructure asset management planning	6	30	Added IIMM and ISO 55000. Reworded PC 2.1 and 3.1 to passive
17305	5	Use optimised decision-making process for infrastructure asset management	6	15	Added IIMM and ISO 55000. Added 'methodologies' to outcome 2 and 3.2 range
17308	5	Conduct risk management in an infrastructure asset management context	6	15	Added IIMM and ISO 55000. Removed 'design' from PC 3.3
23589	3	Explain process, and develop and measure levels of service, for infrastructure assets	5	10	Added IIMM and ISO 55000.
23590	2	Demonstrate knowledge of infrastructure asset information management	6	10	
23591	3	Demonstrate knowledge of financial and economic analysis for infrastructure asset management	6	15	Added IIMM to GI, PC 2.1 and PC 2.2
23592	3	Undertake demand management analysis for infrastructure assets	5	10	Added IIMM to GI. Reworded PC 1.1 and 2.1 to comply with current NZQA practice.

29486	1	Demonstrate knowledge and understanding of laws and standards applicable to infrastructure asset management	4	5	ISO already in the GI. Reworded outcomes 1-3 and PCs to comply with current NZQA practice. Added 'the management of' to outcome 4.
29544	1	Apply professional body rules and ethics as an infrastructure asset management practitioner	5	6	Added ISO. Reworded PC 1.2, 1.3, and 1.4 to comply with current NZQA practice.
29545	2	Work professionally as an infrastructure asset management practitioner	6	6	Added IIMM and ISO 55000. Reworded PC 1.2, 1.3, and 1.4 to comply with current NZQA practice.

Discussed whether all relevant legislation should be included e.g. Land Transport Amendment Act 2013. The list would become longer, and it is difficult to keep current. Some unit standards have "and subsequent replacements and amendments". It is understood (by assessors and NZQA) the current legislation is

Recommend a list of all relevant legislation is included with the Assessor and Candidate Guides, and any material repeated in every candidate and assessor guide is separated so there is an overall guide for the programme. Tim recalled a similar exercise for NZDEP assessment material.

Some unit standards could be amalgamated, but this may make completion difficult for some candidates.

Misalignment of unit standards with graduate profile outcomes was discussed.

Recommend adding a comment about three overarching principles of asset management to the assessment material for 11429. Question 1 should be reworded to better match the outcome. Also give candidate guidance about the level of 'contribution'. Priyani looks for sign-off of several sections.

The group was requested to return the completed attestation forms.

Meeting closed at 11.30 am.