

Agricultural Machinery – Safety and Technology Project



Summary of Feedback, Responses and Actions

05 January 2018

This project included the development of *AHC32618 Certificate III in Rural Machinery Operations* to supersede *AHC32616 Certificate III in Rural Machinery Operations*. This draft includes the redesign of 35 units of competency, and the development of two (2) new units of competency to supersede the current Agricultural Machinery training package components. The revised qualification, new and redesigned units that will be included in the AHC Agriculture, Horticulture and Conservation and Land Management Training Package are listed below.

Units

1. AHCMOM101 Assist with routine maintenance of machinery and equipment (which supersedes *AHCMOM101 Assist with routine maintenance of machinery and equipment*)
2. AHCMOM201 Operate two wheel motorbikes (which supersedes *AHCMOM201 Operate two wheel motorbikes*)
3. AHCMOM202 Operate tractors (which supersedes *AHCMOM202 Operate tractors*)
4. AHCMOM203 Operate basic machinery and equipment (which supersedes *AHCMOM203 Operate basic machinery and equipment*)
5. AHCMOM204 Undertake operational maintenance of machinery (which supersedes *AHCMOM204 Undertake operational maintenance of machinery*)
6. AHCMOM205 Operate vehicles (which supersedes *AHCMOM205 Operate vehicles*)
7. AHCMOM206 Conduct grader operations (which supersedes *AHCMOM206 Conduct grader operations*)
8. AHCMOM207 Conduct front-end loader operations (which supersedes *AHCMOM207 Conduct front-end loader operations*)
9. AHCMOM208 Conduct excavator operations (which supersedes *AHCMOM208 Conduct excavator operations*)
10. AHCMOM209 Conduct dozer operations (which supersedes *AHCMOM209 Conduct dozer operations*)
11. AHCMOM210 Conduct scraper operations (which supersedes *AHCMOM210 Conduct scraper operations*)
12. AHCMOM211 Operate side by side utility vehicles (which supersedes *AHCMOM211 Operate side by side utility vehicles*)
13. AHCMOM212 Operate quad bikes (which supersedes *AHCMOM212 Operate quad bikes*)
14. AHCMOM213 Operate and maintain chainsaws (which supersedes *AHCMOM213 Operate and maintain chainsaws*)
15. AHCMOM214 Operate cane haulage vehicle (which supersedes *AHCMOM214 Operate cane haulage vehicle*)
16. AHCMOM215 Operate commercial lawnmower (new unit)

17. AHCMOM301 Coordinate machinery and equipment maintenance and repair (which supersedes *AHCMOM301 Coordinate machinery and equipment maintenance and repair*)
18. AHCMOM302 Perform machinery maintenance (which supersedes *AHCMOM302 Perform machinery maintenance*)
19. AHCMOM304 Operate machinery and equipment (which supersedes *AHCMOM304 Operate machinery and equipment*)
20. AHCMOM305 Operate specialised machinery and equipment (which supersedes *AHCMOM305 Operate specialised machinery and equipment*)
21. AHCMOM306 Ground spread fertiliser and soil ameliorant (which supersedes *AHCMOM306 Ground spread fertiliser and soil ameliorant*)
22. AHCMOM307 Operate a cane harvester (which supersedes *AHCMOM307 Operate a cane harvester*)
23. AHCMOM308 Operate broadacre and row crop harvest machinery and equipment (which supersedes *AHCMOM308 Operate broadacre and row crop harvest machinery and equipment*)
24. AHCMOM309 Operate broadacre sowing machinery and equipment (which supersedes *AHCMOM309 Operate broadacre sowing machinery and equipment*)
25. AHCMOM310 Operate land-forming machinery and equipment (which supersedes *AHCMOM310 Operate land-forming machinery and equipment*)
26. AHCMOM311 Operate precision control technology (which supersedes *AHCMOM311 Operate precision control technology*)
27. AHCMOM312 Operate row crop planting and seeding machinery and equipment (which supersedes *AHCMOM312 Operate row crop planting and seeding machinery and equipment*)
28. AHCMOM313 Operate mobile irrigation machinery and equipment (which supersedes *AHCMOM313 Operate mobile irrigation machinery and equipment*)
29. AHCMOM314 Transport machinery (which supersedes *AHCMOM314 Transport machinery*)
30. AHCMOM315 Operate chemical application machinery and equipment (which supersedes *AHCMOM315 Operate chemical application machinery and equipment*)
31. AHCMOM316 Refuel machinery (which supersedes *AHCMOM316 Refuel machinery*)
32. AHCMOM317 Operate tractors with attachments (new unit)
33. AHCMOM401 Conduct major repair and overhaul of machinery and equipment (which supersedes *AHCMOM401 Conduct major repair and overhaul of machinery and equipment*)
34. AHCMOM402 Supervise maintenance of property, machinery and equipment (which supersedes *AHCMOM402 Supervise maintenance of property, machinery and equipment*)
35. AHCMOM501 Manage machinery and equipment (which supersedes *AHCMOM501 Manage machinery and equipment*)
36. AHCMOM502 Implement a machinery management system (which supersedes *AHCMOM502 Implement a machinery management system*)
37. AHCMOM601 Analyse machinery options (which supersedes *AHCMOM601 Analyse machinery options*)

The draft qualification, including the new and redesigned units, were available for broader stakeholder consultation and feedback between 9 November and 10 December 2017. Twenty two (22) responses were received, representing fourteen (15) training providers (National, NSW, NT, QLD, SA, VIC and WA), one (1) Curriculum Maintenance Manager (VIC), and six (6) industry (NT, QLD, VIC and WA).

Below is a summary of the issues raised and how these issues have been dealt with. This involves a consideration of the information provided, views of industry stakeholders where known, and views provided by the people who are part of the Subject Matter Expert (SME) Working Group process. Resolutions are constructed to take into account the needs and views of stakeholders as far as possible, and to comply with the *Standards for Training Package 2012*. The resolutions may represent a compromise on one or more stakeholder views with the aim of a workable outcome for industry, STAs and Training Providers.

Stakeholders Comments and Identified Issues		Consideration and Proposed Resolution
Certificate III in Rural Machinery Operations		
1. RTO, SA	Include a unit to cover 'tele handling' materials handling. Front end loaders being replaced on farms due to height of hay stacks.	Added RIIHAN309E Conduct telescopic materials handler operations to elective unit list.
2. RTO, WA	Remove AHCMOM401 Supervise maintenance of property, machinery and equipment from the qualification elective bank and add TLID2010 Operate a forklift to elective bank.	Deleted AHCMOM401 Supervise maintenance of property, machinery and equipment from elective units list and Added TLID2010 Operate a forklift to elective units list.
3. RTO, NT	Include RII Skid Steer unit.	Added RIIMPO318E Conduct civil construction skid steer operations to elective unit list.
4. RTO, NSW	The low enrolment units (AHCMOM206, AHCMOM209, AHCMOM210, AHCMOM214, AHCMOM307, AHCMOM313, AHCMOM316 and AHCMOM601), are likely to have low enrolment figures as they were only recently released and the transition and teach out for this package is 18 months, Updated enrolment numbers will be available-2018.	Noted, retained AHCMOM206, AHCMOM209, AHCMOM210, AHCMOM214, AHCMOM307, AHCMOM313, AHCMOM316 and AHCMOM601.
5. Industry, QLD	The low enrolment units (AHCMOM206, AHCMOM209, AHCMOM210, AHCMOM214, AHCMOM307, AHCMOM313, AHCMOM316 and AHCMOM601), the AHC training package is still in transition and teach out phase. Updated enrolment numbers will provide a more accurate picture when released in mid-2018. The Cane units (AHCMOM214 and AHCMOM307) are definitely required by industry in Queensland. Due to transition and teach out it is recommend checking the enrolments/usage of AHCBAC205A.	

Stakeholders Comments and Identified Issues		Consideration and Proposed Resolution
6. CMM, VIC	The mapping states that the qualification is Equivalent – if there has been a change to the core and elective structure as indicated in the mapping information then the qualification should be deemed Not Equivalent.	Changed to 'No Equivalent Qualification'.
7. RTO, NSW	<p>The unit AHCMOM301 is only suitable for managers rather than operators who do not organise parts and repairs or supervise others on most farms or enterprises. I would suggest that the level II unit be here - AHCMOM204 is more suitable as a core unit and have the level III unit as an elective.</p> <p>The unit Operate specialised equipment AHCMOM305 is fine for Agriculture but not sure it will fit for those working on the roads due to the equipment listed here.</p> <p>Perhaps this too should not be a core unit but an elective.</p> <p>Suggest taking out the specialised machinery unit as mentioned above and making it five core.</p> <p>Elective units in current Qualification just meet the needs of various workplaces in this industry when considering a farmer in this region and the equipment available.</p>	Retained AHCMOM301 and AHCMOM305 in core units list. These units were in the previous version of the qualification. The qualification applies to rural machinery operations so AHCMOM305 is a good fit for this Qualification. The proposed core units were also confirmed by the SME Working Group as required for the core units list.
8. RTO, QLD	Responded to all questions re this Qualification and no issues - feedback all positive.	No further action.

Stakeholders Comments and Identified Issues		Consideration and Proposed Resolution
Thirty Five (35) redesigned units		
9. Industry, QLD	AHCMOM201 Operate two wheel motorbikes – Recommend changes to: <ul style="list-style-type: none"> • Performance Criteria 3.6 • Range of Conditions • Knowledge Evidence • Assessment Conditions. 	Minor revisions to Performance Criteria 3.6, Range of Conditions, Knowledge Evidence and Assessment Conditions to clarify conditions for loading and unloading (provide on-site option).
10. RTO, SA	AHCMOM201 Operate two wheel motorbikes – Recommend changes to: <ul style="list-style-type: none"> • Performance Criteria 3.6 • Range of Conditions • Knowledge Evidence • Assessment Conditions. 	
11. RTO, NSW	AHCMOM202 Operate tractors - The changes to this unit are very good, it needs to be recoded to AQF3 and suggest that there be a low level AQF2 unit created - Operate tractors under supervision - that captures low powered tractors being operated under close supervision. This will be useful for AG school students and also for areas such as local councils where new operators start on less powerful tractors under direct supervision before moving onto more complex vehicles.	Developed an AQF level two (2) unit (equivalent to AHCMOM202) AHCMOM202 Operate tractors, which is focussed on operating tractors under supervision. Draft unit material used to develop an AQF3 unit (new unit) AHCMOM317 Operate tractors with attachments. Both units to be included in the elective units list for the qualification.
12. RTO, VIC	AHCMOM202 Operate tractors – minor typographical error in Knowledge Evidence.	Typographical error in Knowledge Evidence corrected.
13. RTO, SA	AHCMOM207 Conduct front-end loader operations - Recommend changes to: <ul style="list-style-type: none"> • Element 2 	Minor revision to Element Two (2), Range of Conditions and Performance Evidence to clarify use of attachments.

Stakeholders Comments and Identified Issues		Consideration and Proposed Resolution
	<ul style="list-style-type: none"> • Range of Conditions • Performance Evidence. 	
14. CMM, VIC	<p>AHCMOM207 Conduct front-end loader operations - Recommend changes to:</p> <ul style="list-style-type: none"> • Application • Performance Criteria 1.1, 1.2, 2.1 and 2.6 • Assessment Conditions. 	Minor revisions to the Application, Performance Criteria 1.1, 1.2, 2.1 and 2.6 and Assessment Conditions to confirm operational capacity of equipment.
15. RTO, VIC	AHCMOM208 Conduct excavator operations – minor typographical error in Performance Evidence.	Typographical error in Performance Evidence corrected.
16. RTO, VIC	AHCMOM211 Operate side by side utility vehicles – minor typographical error in Performance Evidence.	Typographical error in Performance Evidence corrected.
17. RTO, NT	<p>AHCMOM211 Operate side by side utility vehicles - Recommend changes to:</p> <ul style="list-style-type: none"> • Performance Criteria 2.7 • Range of Conditions • Assessment Conditions. 	Minor revisions to Performance Criteria 2.7, Range of Conditions and Assessment Conditions to confirm vehicle safety features
18. Industry, QLD	<p>AHCMOM211 Operate side by side utility vehicles - Recommend changes to:</p> <ul style="list-style-type: none"> • Application – Occupational Licensing Requirements (concessional registration and mandatory PPE requirements introduced in QLD) also should include ‘carrying and towing loads’ • Performance Criteria – add 1.7, 2.7, 2.8, 2.9 • Assessment Conditions – delete no towing. 	Licensing requirements are covered in the unit application under “Vehicle must be operated according to relevant State/Territory licensing authority vehicle licence requirements and regulations”. Feedback sought from SME Working Group regarding towing and PC’s related to towing. SME Working Group decision was that unit should not include towing loads as it is focussed on operating the vehicle - not on operating with towed attachments. Performance Criteria 1.6 changed to “fixed attachments”, load limits and attachments and their effect on quad bike stability is covered in Knowledge Evidence. No further action with regard to towing in relation to quad bike operation
19. RTO, VIC	AHCMOM212 Operate quad bikes – minor typographical error in Performance Evidence and Knowledge Evidence.	Typographical error in Performance Evidence and Knowledge Evidence corrected.
20. RTO, SA	<p>AHCMOM212 Operate quad bikes – Recommend changes to:</p> <ul style="list-style-type: none"> • Performance Criteria 3.5 	

Stakeholders Comments and Identified Issues		Consideration and Proposed Resolution
	<ul style="list-style-type: none"> • Range of Conditions • Knowledge Evidence • Assessment Conditions. 	Revisions to Performance Criteria 3.5, Range of Conditions, Knowledge Evidence and Assessment Conditions to confirm loading and unloading (including on-site option).
21. Industry, WA	AHCMOM212 Operate quad bikes – Recommend changes to: <ul style="list-style-type: none"> • Performance Criteria 3.5 • Range of Conditions • Knowledge Evidence • Assessment Conditions. 	
22. Industry, NT	AHCMOM212 Operate quad bikes – Recommend changes to: <ul style="list-style-type: none"> • Performance Criteria 3.5 • Range of Conditions • Knowledge Evidence • Assessment Conditions. 	
23. RTO, NT	AHCMOM212 Operate quad bikes – Recommend changes to: <ul style="list-style-type: none"> • Performance Evidence – suggest changing “on at least one occasion” to riding tasks in Elements 1 and 2 must be done at a minimum of ten (10) times. • Assessment Conditions. 	Minor revision to Assessment Conditions. Feedback was sought from SME Working Group regarding recommended changes to Performance Evidence. SME Working Group determined Performance Evidence adequate.
24. Industry, QLD	AHCMOM212 Operate quad bikes – Recommend: <ul style="list-style-type: none"> • Should include competency on ‘Operate quad bike with attached implements – e.g. spray tanks and spray boom’. 	Feedback sought from SME Working Group regarding recommended changes. SME Working Group determined that spray tanks and booms are not always available. Load limits and attachments specific to quad bike capabilities and the effects to dynamic stability is covered in the Knowledge Evidence.
25. Industry, WA	AHCMOM212 Operate quad bikes – Recommend: <ul style="list-style-type: none"> • Helmet use – should reflect regulatory requirements 	Feedback sought from SME Working Group about regulatory requirements for helmet use. SME Working Group determined that there currently are no nationally consistent regulations around helmet use and type. Therefore, current wording for helmet be retained in current format.
26. RTO, QLD	AHCMOM212 Operate quad bikes – Recommend:	

Stakeholders Comments and Identified Issues		Consideration and Proposed Resolution
	<ul style="list-style-type: none"> • Helmet use – should reflect AHCMOM211 Range of Conditions for helmet in this unit. 	
27. CMM, VIC	AHCMOM212 Operate quad bikes – Recommend changes to: <ul style="list-style-type: none"> • Performance Criteria 1.1, 1.6 and 3.3 • Assessment Conditions. 	Minor revisions to Performance Criteria 1.1, 1.6, 3.3 and Assessment Conditions to clarify communication with relevant personnel.
28. RTO, NSW	AHCMOM212 Operate quad bikes – Recommend changes to: <ul style="list-style-type: none"> • Licensing description clear however should it state that training in this unit is a requirement if purchasing a new vehicle? • Performance Criteria 2.5 • Assessment Conditions. 	Minor revisions to Performance Criteria 2.5 and Assessment Conditions. Licensing description is written according to Skills Impact Unit template. Currently there is no national mandated requirement to undertake training when purchasing a new vehicle.
29. RTO, SA	AHCMOM213 Operate and maintain chainsaws – Recommend changes to: <ul style="list-style-type: none"> • Foundation Skills • Range of Conditions • Knowledge Evidence • Assessment Conditions. 	Minor revisions to Foundation Skills, Range of Conditions, Knowledge Evidence and Assessment Conditions to confirm chainsaw operational and maintenance requirements.
30. CMM, VIC	AHCMOM213 Operate and maintain chainsaws – Recommend changes to: <ul style="list-style-type: none"> • Performance Criteria 1.1, 1.3, 1.5, 2.4, 3.3, 3.5, 4.4, 4.8, 4.9, 5.2 and 5.4 • Range of Conditions • Performance Evidence • Assessment Conditions. 	Minor revisions to Performance Criteria 1.1, 1.3, 1.5, 2.4, 3.3, 3.5, 4.4, 4.8, 4.9, 5.2 and 5.4, Range of Conditions, Performance Evidence, Knowledge Evidence and Assessment Conditions to confirm operational and maintenance requirements.
31. RTO, SA	AHCMOM213 Operate and maintain chainsaws – Recommend changes to:	Minor revisions to Performance Criteria 1.1, and 4.1 to confirm communication with relevant personnel

Stakeholders Comments and Identified Issues		Consideration and Proposed Resolution
	<ul style="list-style-type: none"> Performance Criteria 1.1 and 4.1. 	
32. RTO, VIC	<p>AHCMOM213 Operate and maintain chainsaws – Recommend changes to:</p> <ul style="list-style-type: none"> Element 3 Performance Criteria 4.4 Range of Conditions Performance Evidence. 	Minor revisions to Element 3, Performance Criteria 4.4, Range of Conditions, Performance Evidence, Knowledge Evidence and Assessment Conditions to confirm activities for safe operation of chainsaw.
33. RTO, VIC	AHCMOM214 Operate can haulage vehicle – minor typographical error in Performance Evidence.	Typographical error in Performance Evidence corrected.
34. RTO, VIC	AHCMOM301 Coordinate machinery and equipment maintenance – minor typographical error in Knowledge Evidence.	Typographical error in Knowledge Evidence corrected.
35. RTO, QLD	<p>AHCMOM302 Perform machinery maintenance – Recommend changes to:</p> <ul style="list-style-type: none"> Performance Criteria 3.1 Performance Evidence. 	Minor revisions to Performance Criteria 3.1 and Performance Evidence to clarify transmission maintenance.
36. RTO, VIC	AHCMOM304 Operate machinery and equipment – minor typographical error in Knowledge Evidence.	Typographical error in Knowledge Evidence corrected.
37. RTO Consultant, National	<p>AHCMOM304 Operate machinery and equipment, Recommend:</p> <ul style="list-style-type: none"> This unit and other AHCMOM “operate” units on training.gov.au, I can see the range statement has been removed. Previously the range statement quite clearly excluded some types of equipment from the learning e.g. chainsaw and tractors. So does this mean then that if an inexperienced trainer were to take this unit that it could be a free for all and any type of machinery could be taught and assessed? 	Revision of the Application, Range of Conditions, Performance Evidence, Knowledge Evidence and Assessment Conditions to capture type of equipment in this unit and all AHCMOM ‘operate machinery’ units.

Stakeholders Comments and Identified Issues		Consideration and Proposed Resolution
38. RTO, VIC	AHCMOM305 Operate specialised machinery and equipment – minor typographical errors in Performance Evidence and Knowledge Evidence.	Typographical errors in Performance Evidence and Knowledge Evidence corrected.
39. RTO, VIC	AHCMOM306 Ground spread fertiliser and soil ameliorant – minor typographical error in Knowledge Evidence.	Typographical error in Knowledge Evidence corrected.
40. RTO, VIC	AHCMOM307 Operate a cane harvester – minor typographical error in Performance Evidence.	Typographical error in Performance Evidence corrected.
41. Industry, WA	AHCMOM311 Operate precision control technology – Recommend changes to: <ul style="list-style-type: none"> Range of Conditions – state types of precision control technologies. 	Minor revision to Range of Conditions – <ul style="list-style-type: none"> On-board GPS, GNSS or DGPS precision control equipment Fixed GPS, GNSS or DGPS precision control equipment.
42. RTO, VIC	AHCMOM316 Refuel machinery – minor typographical error in Knowledge Evidence.	Minor typographical error in Knowledge Evidence corrected.
43. RTO, QLD	AHCMOM316 Refuel machinery – need to check the title, as it is different to the current unit on training.gov.au.	Unit title corrected.
Two (2) new units		
44. RTO, SA	AHCMOM317 Operate tractors with attachments - Recommend changes to: <ul style="list-style-type: none"> Performance Criteria 3.1 Performance Evidence Assessment Conditions.	Minor revisions to Performance Criteria 3.1, Performance Evidence and Assessment Conditions to confirm pre-start actions.
45. Industry, WA	AHCMOM317 Operate tractors with attachments - Recommend changes to: <ul style="list-style-type: none"> Range of Conditions Knowledge Evidence 	Revisions to Range of Conditions, Knowledge Evidence and Assessment Conditions to confirm types of attachments.

Stakeholders Comments and Identified Issues		Consideration and Proposed Resolution
	<ul style="list-style-type: none"> Assessment Conditions. 	
46. CMM, VIC	<p>AHCMOM317 Operate tractors with attachments - Recommend changes to:</p> <ul style="list-style-type: none"> Application Performance Criteria 1.1, 1.2 and 3.5 Performance Evidence Assessment Conditions. 	Revisions to the Application, Performance Criteria 1.1, 1.2, and 3.5, Performance Evidence and Assessment Conditions to confirm safe operational procedures.