

### **Attachment A: Members of the Big Data Project Reference Group**

IRC membership	Name	Position, Organisation
Civil Infrastructure IRC	Craig Moss	Director, Professional & Career Development, Institute of Public Work Engineering Australasia
SME (nominated by Lynda Douglas, Deputy Chair of Public Safety IRC)	Jaesen Jones	Chief Information Steward, Defence - Capability Acquisition and Sustainment Domain
Enrolled Nursing IRC	Jodie Davis	Federal Education Officer, Australian Nursing and Midwifery Association (National)
Local Government IRC	John Roydhouse	Chief Executive Officer, Institute of Public Works Engineering Australasia New South Wales
Business Services IRC	Judy Brooker	Director of Learning, Australian Library and Information Association
Meat IRC	Kevin Cottrill	Executive Officer, Australian Meat Industry Council
Information and Communications Technology IRC	Kevin Harris	Education SIG Chair, Australian Information Industry Association
Agriculture and Production Horticulture IRC	Meg Parkinson	President, Victorian Farmers Federation Industrial Association
Printing and Graphic Arts IRC	Michelle Lees	National Project Consultant, Printing Industries Association of Australia (PIAA)
Process Manufacturing, Recreational Vehicle and Laboratory IRC	Nigel Haywood	General Manager, Education & Work Skills, National Energy Resources Australia (NERA)
Property Services IRC	Noel Hamey	Head of Department of Building, Engineering and Spatial Information, ACT Government
Electricity Supply Industry Generation IRC	Richard Harvey	Competency and Learning Manager - Group Operations, AGL
Electricity Supply Transmission Distribution and Rail IRC	Stuart Johnston	Executive Director - Assets and Network Transformation, Energy Networks Association
Financial Services IRC	Wayne Wilson	Chief Executive Officer, KnowIT Group
Culture and Related Industries IRC	Yvonne Webb	Industry Engagement Officer, Industry Skills Advisory Council NT

### Attachment B: Training package components to change

IRC Name	SSO with Responsibility	Training Package Code	Training Package Name	Training Product Code	Training product name (Qualification, skill set, unit of competency)	Review Status (New or updated)	Change required (review for currency, replace with new unit)
Big Data Cross Sector Project	PwC's Skills for Australia	TBD	TBD	TBD	Applied Data Analysis	New skill set	Draft new skill set
Big Data Cross Sector Project	PwC's Skills for Australia	TBD	TBD	TBD	Introduce Big Data and Data Driven Decision Making	New unit	Draft new unit
Big Data Cross Sector Project	PwC's Skills for Australia	TBD	TBD	TBD	Visualise and present data	New unit	Draft new unit
Big Data Cross Sector Project	PwC's Skills for Australia	TBD	TBD	TBD	Use data for advanced operational decision making	New unit	Draft new unit
Big Data Cross Sector Project	PwC's Skills for Australia	TBD	TBD	TBD	Analyse data and report results	New unit	Draft new unit
Big Data Cross Sector Project	PwC's Skills for Australia	TBD	TBD	TBD	Manage data quality and governance	New unit	Draft new unit
Big Data Cross Sector Project	PwC's Skills for Australia	TBD	TBD	TBD	Manage and maintain datasets	New unit	Draft new unit
Big Data Cross Sector Project	PwC's Skills for Australia	TBD	TBD	TBD	Collect and record data	New unit	Draft new unit
Big Data Cross Sector Project	PwC's Skills for Australia	TBD	TBD	TBD	Analyse basic test data	New unit	Draft new unit
Big Data Cross Sector Project	PwC's Skills for Australia	TBD	TBD	TBD	Analyse and interpret data	New unit	Draft new unit
Agriculture and Production Horticulture	Skills Impact	AHC	Agriculture, Horticulture and Conservation and Land Management	AHCWRK502	Collect and manage data	Updated	Import into other training packages
Meat	Skills Impact	AMP	Australian Meat Processing	AMPMGT809	Analyse data for business decision making	Updated	Import into other training packages
Business Services	PwC's Skills for Australia	BSB	Business Services	BSBITU301	Create and use databases	Updated	Import into other training packages
Business Services	PwC's Skills for Australia	BSB	Business Services	BSBITA401	Design databases	Updated	Import into other training packages

Business Services	PwC's Skills for Australia	BSB	Business Services	BSBMKG528	Mine data to identify industry directions	Updated	Import into other training packages
Business Services	PwC's Skills for Australia	BSB	Business Services	BSBMKG511	Analyse data from international markets	Updated	Import into other training packages
Public Safety	Australian Industry Standards	DEF	Defence	DEFGEN313	Establish technical data and information management systems	Updated	Import into other training packages
Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTSAD501	Model data objects	Updated	Import into other training packages
Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTWEB425	Apply structured query language to extract and manipulate data	Updated	Import into other training packages
Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTDBS601	Build a data warehouse	Updated	Import into other training packages
Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTDBS412	Build a database	Updated	Import into other training packages
Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTDBS503	Create a data warehouse	Updated	Import into other training packages
Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTDBS403	Create basic databases	Updated	Import into other training packages
Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTDBS502	Design a database	Updated	Import into other training packages
Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTICT509	Gather data to identify business requirements	Updated	Import into other training packages

Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTDBS401	Identify physical database requirements	Updated	Import into other training packages
Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTDBS409	Monitor and administer a database	Updated	Import into other training packages
Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTICT210	Operate database applications	Updated	Import into other training packages
Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTPRG403	Develop data-driven applications	Updated	Import into other training packages
Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTNWK403	Manage network and data integrity	Updated	Import into other training packages
Furnishing	IBSA	MSF	Furnishing	MSFGG4002	Use glass industry data systems	Updated	Import into other training packages
Process Manufacturing, Recreational Vehicle and Laboratory	IBSA	MSL	Laboratory Operations	MSL925001	Analyse data and report results	Updated	Import into other training packages
Process Manufacturing, Recreational Vehicle and Laboratory	IBSA	MSL	Laboratory Operations	MSL924001	Process and interpret data	Updated	Import into other training packages
Public Sector	SkillsIQ	PSP	Public Sector	PSPGEN061	Scope statistical data collection	Updated	Import into other training packages
Information and Communications Technology	PwC's Skills for Australia	ICT	Information and Communications Technology	ICTICT812	Develop a business intelligence framework	Updated	Import into other training packages
Wholesale and Retail	SkillsIQ	SIR	Retail Services Training Package	SIRXECM001	Monitor and interpret online data analytics	Updated	Import into other training packages

Agriculture and Production Horticulture	Skills Impact	AHC	Agriculture, Horticulture and Conservation and Land Management	AHCAGB402	Analyse and interpret production data	Updated	Replace with new unit - 'Analyse and interpret data'
Agriculture and Production Horticulture	Skills Impact	AHC	Agriculture, Horticulture and Conservation and Land Management	AHCWRK207	Collect and record production data	Updated	Replace with new unit - 'Collect and record data'
Meat	Skills Impact	AMP	Australian Meat Processing	AMPS212	Measure and calculate routine workplace data	Updated	Replace with new unit - 'Analyse basic test data'
Business Services	PwC's Skills for Australia	BSB	Business Services	BSBCUE204	Collect data	Updated	Replace with new unit - 'Collect and record data'
Public Safety	Australian Industry Standards	DEF	Defence	DEFTST006	Analyse test data	Updated	Replace with new unit - 'Analyse and interpret data'
Food, Beverage and Pharmaceutical	Skills Impact	FDF	Food Processing	FDFLAB2008A	Analyse laboratory data	Updated	Replace with new unit - 'Analyse basic test data'
Food, Beverage and Pharmaceutical	Skills Impact	FDF	Food Processing	FDFTE4007A	Describe and analyse data using mathematical principles	Updated	Replace with new unit - 'Analyse and interpret data'
Food, Beverage and Pharmaceutical	Skills Impact	FDF	Food Processing	FDFLAB2006A	Record laboratory data	Updated	Replace with new unit - 'Collect and record data'
Timber Building Solutions	Skills Impact	FWP	Forest and Wood Products	FWPFGM2206	Collect data or samples for assessment	Updated	Replace with new unit - 'Collect and record data'
Sustainability	IBSA	MSS	Sustainability	MSSo24004	Process and present environmental data	Updated	Replace with new unit - 'Analyse and interpret data'
Public Sector	SkillsIQ	PSP	Public Sector	PSPGEN065	Interpret data and related statistics	Updated	Replace with new unit - 'Analyse data and report results'
Public Sector	SkillsIQ	PSP	Public Sector	PSPREG016	Conduct data analysis	Updated	Replace with new unit - 'Analyse and interpret data'
Five different IRCs	PwC's Skills for Australia	RII	Resources and Infrastructure Industry	RIISTD302D	Process data and maintain accurate records	Updated	Replace with new unit - 'Collect and record data'
Aquaculture and Wild Catch	Skills Impact	SFI	Seafood	SFIOBSV302B	Collect reliable scientific data and samples	Updated	Replace with new unit - 'Collect and record data'

Aquaculture and Wild Catch	Skills Impact	SFI	Seafood	SFIOBSV303B	Collect routine fishery management data	Updated	Replace with new unit - 'Collect and record data'
Tourism, Travel and Hospitality	SkillsIQ	SIT	Tourism, Travel and Hospitality	SITTPD007	Research and analyse tourism data	Updated	Replace with new unit - 'Analyse data and report results'
Rail Transport and Logistics	Australian Industry Standards	TLI	Transport and Logistics	TLIE4006	Collect, analyse and present workplace data and information	Updated	Replace with new unit - 'Analyse and interpret data'
Financial Services	PwC's Skills for Australia	FNS	Financial Services	FNSPIM410	Collect, assess and use information	Updated	Replace with new unit - 'Collect and record data'

### ***Attachment C: Stakeholder consultation method and scale***

In summary, there were 113 responses in total through our consultation channels (Interview, Focus Group Meetings and Cyber Security Industry Survey), representing 27 industries. Furthermore, all states and territories contributed at least in one form to the consultation process. This provides strong evidence of effective consultation, engagement and collaboration across a diverse spread of sectors and industries. Listed below are some of the key stakeholders who were contacted for consultation:

<b>Name</b>	<b>Organisation</b>	<b>Location</b>	<b>Industry representation</b>	<b>Stakeholder type</b>	<b>Consultation Method</b>
Alex Zong	PricewaterhouseCoopers	QLD	Business Services; ICT	Technical SMEs & researchers	Interview
Amir Vahid Dastjerd	PricewaterhouseCoopers	VIC	Business Services; Financial Services	Technical SMEs & researchers	Interview
Arif Jubaer	Melbourne Institute of Technology	VIC	ICT; Screen and Media	Technical SMEs & researchers	Interview
Artak Amirbekyan	Commonwealth Bank	NSW	Financial Services; Property Services	Employers (L)	Interview
Belinda Brown	Financial Education Professionals	NSW	Business Services; Financial Services	Industry association or peak body	Focus Group
Charles Hoang	Australian Industry Group	NSW	Business Services	Industry association or peak body	Interview
Chris Morcom	Hewisons	VIC	Financial Services; Business Services	Employers (S-M)	Interview
Christiana Miegel	EConnekt	NSW	Training and Education; Travel, Tourism and Hospitality	Employers (S-M)	Focus Group
Craig Moss	Institute of Public Work Engineering Australasia	QLD	Resources and Infrastructure; Manufacturing and Engineering	Industry association or peak body	Interview
David Sweeney	Telstra; Information and Communications Technology IRC	VIC	ICT	Employers (L)	Interview
Dolores Bowie	TAFE Queensland	QLD	Training and Education	Training Providers	Interview
Dominic Schipano	Australian Digital Televisions Industry Association	VIC	ICT	Industry association or peak body	Interview
Fred Fattal	Sonfat	NSW	Manufacturing and Engineering; ICT	Employers (S-M)	Interview
Greg Dickason	CoreLogic	NSW	Property Services; ICT	Employers (L)	Interview
Inas Sedrak	TAFE New South Wales Industry Liaison Unit	NSW	Training and Education	Training Providers	Focus Group

Jayne Miller	Canberra Institute of Technology	ACT	Training and Education; ICT	Training Providers	Interview; Focus Group
Jenny Kroonstuiwer	National Meat Industry Training Advisory Council	NSW	Food and Meat Processing; Training and Education	Industry association or peak body	Focus Group
Jodie Siganto	SASS Air	QLD	Business Services; Electricity and Electrotechnology	Industry association or peak body	Interview
Joe D'Amico	Chisholm	VIC	Training and Education	Training Providers	Interview
John Godfrey	Informed Investor	NSW	Financial Services	Employers (S-M)	Interview
Julie Hobbs	Future Now	WA	Training and Education; Screen and Media	Industry association or peak body	Interview
Julie Ruiz	TAFE South Australia	SA	Training and Education; ICT	Training Providers	Focus Group
Justin Ling	PricewaterhouseCoopers	VIC	Business Services		Interview
Kevin Harris	Australian Information Industry Association	NSW	ICT	Industry association or peak body	Interview
Kevin Cottrill	Australian Meat Industry Council	NSW	Food and Meat Processing; Agriculture, Horticulture, Conservation and Land Management	Industry association or peak body	Interview
Luke Kerr	Real Time Learning	VIC	Training and Education	Training Providers	Interview
Mark Staaf	Australian Nursing and Midwifery Association (Victoria)	VIC	Training and Education; Health	Industry association or peak body	Interview
Mark Walker	ICM Consulting	NSW	ICT; Business Services	Employers (S-M)	Focus Group
Matthew Deaner	Screen Producers	NSW	Screen and Media	Industry association or peak body	Interview
Meg Parkinson	Victorian Farmers Federation Industrial Association	VIC	Agriculture, horticulture, conservation and land management	Industry association or peak body	Interview
Michael Boyce	ANZETA	SA	Electricity and Electrotechnology; Training and Education	Industry association or peak body	Interview
Paul Lewis	Ord Minnett	QLD	Financial Services	Employers (S-M)	Interview
Remy Hamilton-Smith	Quantum	NSW	ICT; Business Services	Employers (L)	Interview
Reza Hassanzadeh	TAFE Queensland	QLD	ICT; Training and Education	Training Providers	Interview
Rezza Moieni	Cultural Infusion	VIC	Creative Arts and Culture	Employers (L)	Interview
Richard Harvey	AGL	VIC	Electricity and Electrotechnology; Gas Industry	Employers (L)	Interview



Richard Sinnott	University of Melbourne	VIC	ICT; Training and Education	Technical SMEs & researchers	Interview
Sam Nicolosi	QMI Solutions	QLD	Manufacturing and Engineering; Aeroskills	Employers (S-M)	Interview
Santi Ruiz	TAFE South Australia	SA	Training and Education; ICT	Training Providers	Focus Group
Sharyn Meade	Holmesglen	VIC	Training and Education	Training Providers	Interview
Susan Dimitriadis	Department of Defence	ACT	ICT; Defence	Government Departments	Interview
Tamara Bell	A/AA	VIC	Aviation; Aeroskills	Industry association or peak body	Interview
Thomas Montague	Roekoh & Associates	VIC	ICT	Technical SMEs & researchers	Interview
Tony Badrick	The Royal College of Pathologists of Australasia Quality Assurance	QLD	Health; Training and Education	Technical SMEs & researchers	Interview