



Workforce Participation In Australian Transport And Logistics

Prepared by the:



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The views expressed in the report and the associated outcomes are those of the ACG and do not necessarily reflect those of the DEEWR.

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Highlights

In articulating the contribution of Transport and Logistics (T&L) to the Australian economy, the extent of workforce participation is of particular interest. Without quantification, policies to attract and retain a skilled workforce are, at best, problematic. The purpose of this report is to identify the number of persons employed within the Australian economy whose jobs involve, either wholly or in part, T&L activities. That is, the number of employed personnel that participate in a T&L activity and/or employed by an T&L entity. The analysis focuses on the T&L skills required to service the Australian economy rather than the traditional industry based employment categorisation.

The major headlines arising from the review are detailed below:

- T&L workforce participation approximates 1,246,406 persons as at August 2006. The participation is *equivalent* to 13.9 per cent of the national workforce aggregate;
- 32.0 per cent of the T&L workforce were located in New South Wales followed by 23.9 per cent in Victoria, 21.2 per cent in Queensland, 10.6 per cent in Western Australia, 8.0 per cent in South Australia, 2.3 per cent in Tasmania 1.0 per cent in the Northern Territory and 0.9 per cent in the Australian Capital Territory;
- 72.4 per cent (or 847,582 persons) were attributed to the freight sector (on the basis of predominant activity), 9.4 per cent (or 109,781 persons) to passenger transport while the remaining 18.2 per cent (212,406) could be attributed to either the freight or passenger sectors. On a two sectoral basis (that is excluding “both” occupations), the freight sector represented 88.5 per cent of national T&L participants;
- More than three quarters (76.7 per cent) of those participating in T&L activities are male;
- 55.8 per cent of national T&L participants are aged 44 years or younger with 20.4 per cent 55 years or older;
- Female participants tend to be younger than their male counterparts with 58.1 per cent of females 44 years or younger compared with 55.1 per cent for males;
- The largest single educational level is year 10 or below which constitutes 35.5 per cent of those participating in T&L activities. The proportional representation of year 10 or below achievers does not alter significantly by gender;
- The female workforce have, on average, higher education levels with 18.3 per cent of females achieving a diploma or higher compared with 11.7 per cent for males;
- 33.0 per cent of all participants attained an educational level greater than year 12.

1.0 Introduction

1.1 Background

In June 2007, the Australian Logistics Council (ALC) released a report titled “Contribution of Transport and Logistics to the Economy”¹. The report, prepared by the Apelbaum Consulting Group (ACG) identified that the Australian Transport and Logistics (T&L) sector was equivalent to approximately 14.5 per cent of Gross Domestic Product (GDP) with State/Territory equivalence ranging from 3.6 per cent in the Australian Capital Territory (ACT) to 24.1 per cent in Western Australia (WA). In terms of performance, the Australian T&L sector is rated highly by the World Bank² being ranked 17 from 150 countries, only marginally behind the United States.

In articulating the contribution of T&L to the Australian economy, the extent of employment is of particular interest. The Federal Department of Transport and Regional Services (DOTARS)³ noted that “the inability to determine more precisely the size of the logistics workforce is an impediment to clearly articulating the importance of logistics to the economy. As a result, DOTARS recommended ... as a priority, “a comprehensive study of the size and characteristics of the logistics workforce. Without quantification, policies to attract and retain a skilled workforce can, at best, be problematic”.

There have been various attempts to define T&L related employment in the Australian workforce. One of the earliest endeavours was undertaken by the Bureau of Transport Economics (BTE, 2001⁴) in which it was concluded that the transport and storage (T&S) sector employed 418,700 persons in 1999/00 which equated to 4.6 per cent of persons employed as at June 2000. Allowing for a factor of 1.65 to represent the logistic component of T&L, the BTE surmised that transport, storage and logistics contributed approximately 690,000 full time equivalent (FTE) persons or 7.6 per cent of total employed.

The Federal Department of Education, Employment and Workplace Relations (DEEWR)⁵ concluded that the Australian T&L industry employed 480,100 persons, as at May 2007. The employment size reported by DEEWR is supported by the Transport and Logistic Industry Skills Council⁶. The Standing Committee on Employment, Workplace Relations and Education (2007)⁷ in examining workforce challenges in the transport industry relied upon Australian Bureau of Statistics (ABS) data⁸ to quantify employment in the T&S industry at 454,000 in 2004/05. In a separate analysis, the Victorian Government⁹ concluded through independent research that Victorian T&L was responsible for 334,000 jobs though elsewhere in the report, 238,000 personnel were identified from ABS Labour Force data.

¹ Australian Logistics Council (2007), “Contribution of Transport & Logistics to The Economy – Dispelling the Myths”, Prepared by the Apelbaum Consulting Group Pty Ltd.

² The World Bank (2007), “Connecting to Compete - Trade Logistics in the Global Economy - The Logistics Performance Index and Its Indicators”, Washington DC.

³ DOTARS (2002) “Freight Logistics in Australia - An Agenda for Action”.

⁴ Bureau of Transport Economics (2001).

⁵ Department of Education, Employment and Workplace Relations (2007), “Employment Outlook for Transport and Storage”, SkillsInfo, Canberra. As at February 2008, T&S employment grew to approximately 500,000.

⁶ The Transport & Logistic Skills Council (2008), “Environmental Scan.1 2008”.

⁷ Standing Committee on Employment, Workplace Relations and Education (2007), “Workforce Challenges in the Transport Industry”

⁸ Australian Bureau of Statistics (2007), “Year Book 2006”, Cat No. 1301.0.

⁹ Department of Innovation, Industry and Regional Development (2007), “The 2007 Victorian Transport and Logistics Industry Report”.

The outcomes of the above analyses are very much governed by the manner in which the industry is defined. The national estimates prepared by the ABS reflect the number of employees within the transport and storage sector. That is, the industry cluster is confined to hire and reward (or direct) transport and storage (T&S) operators who provide freight transport and storage services on a commercial fee for service basis¹⁰.

However, transport, storage and logistics in Australia is pervasive, servicing every sector of the Australian¹¹ (and international¹²) economy. There exist many commercial and industrial entities involved in other sectors of the economy, such as mining, agricultural, retail, construction and Government who undertake transport, storage and logistics activities for “in-house” purposes. These are defined as ancillary T&L activities which are typically embedded in the accounts of the primary business entity.

In addition to the direct (hire and reward and ancillary) employment associated with transport and logistics, there exists indirect employment associated with those who provide non-“transport” and logistic services arising from transport and logistic activities such as vehicle renting, real estate, accounting, legal, tax and business consultancy, labour recruitment, travel agents, market research and miscellaneous business activities.

In 2008, the ALC Industry Data Steering Group approved the next phase of its data program by building on the research conducted in the GDP report. The ACG was commissioned to quantify T&L workforce participation in Australia.

1.2 Study Objectives

The principal objectives of this project are to:

- quantify the size of the Australian workforce participating in T&L activities and to provide some insight into its structure;
- develop a methodological framework that allows the analysis to be replicated on an ongoing basis so as to provide a monitoring capability.

1.3 The Question To Be Answered

Concerns regarding existing national employment estimates for the wider T&L community reflect the question being addressed. Some of the previous analysis identified the number of persons employed within T&S in accordance with the ABS definition of the T&S industry. Sectoral clusters are based upon an industrial classification that identifies “groupings of businesses which carry out similar productive activities.”¹³ Within this context, similar productive activities reflect the predominant activity(s) of the business/entity⁹.

¹⁰ In accordance with the sectoral definition employed by the Australian Bureau of Statistics. This definition ostensibly excludes logistics hence the attempt by the BTE to apply a factors of 1.65 of direct employment to capture logistic activities.

¹¹ Australian Logistics Council (2007), “Contribution of Transport & Logistics to the Economy - Dispelling the Myths”, Prepared by the Apelbaum Consulting Group Pty Ltd.

¹² Lagneaux, F. (2008), “Economic Importance of Belgian Transport Logistics” Working Paper Document No 125, National Bank of Belgium.

¹³ Australian Bureau of Statistics (2006), “Australian and New Zealand Standard Industrial Classification 2006”, Cat. No. 1292.0.

However, T&L workforce participation is **embedded within every sector of the Australian economy**. Many employees in sectors of the economy, other than the T&S sector undertake T&L activities on an ongoing basis. This is evidenced by the recently announced State Government skills initiatives that are directed at enhancing the capability of those employed in the non-transport/storage sectors such as the farming sector to “look at new career options” in T&L by “using the (transport/storage) skills they already have”¹⁴ ¹⁵. Maintaining an industry sector focus in examining the employment associated with T&L activities only serves to grossly underestimate the significance of T&L employment skills within the Australian economy.

The question that is the subject of this report is not how many people are employed within those entities whose primary role is the carriage of passengers and/or freight and the storage of freight (the hire and reward transport and storage sector) but ***the number of persons employed within the Australian economy whose jobs involve, either wholly or in part, T&L activities. That is, the number of employed personnel that participate in a T&L activity and/or employed by an T&L entity.*** The analysis focuses on T&L skills required to service the Australian economy rather than the traditional industry based employment categorisation.

1.4 Report Outline

The report is presented in four (4) sections. Section 2 defines the T&L activity cluster with particular attention to the direct and ancillary sectors. The review of available data is outlined in Section 3. The final section details participation levels arising from T&L with particular attention directed to key explanatory variables such as gender, age, state of participation, level of education and freight/passenger sectoral contributions.

¹⁴ Blues Country Magazine (2008), “Drought-hit workers offered transport path in Queensland”, 21/8/2008.

¹⁵ http://presszoom.com/print_story_145151.html (2008), “\$472,500 Boost for Skills Initiatives in the Wimmera”.

2.0 The T&L Activity Cluster

The T&L activity cluster represents those businesses/entities involved in “the movement and handling of goods and materials, from inputs through production to consumers and waste disposal” and “associated reverse flows such as product and equipment returns, and recycling”¹. This involves a range of production, transport, storage, product support and reverse flow activities which have been summarised in **Table 2.1**.

2.1 The Direct (Hire And Reward) Industry Cluster

The direct or hire and reward (H&R) cluster encompasses all those businesses/entities whose *predominant activity is transport and storage* and whose activities are listed (either wholly or in part) in Table 2.1. The cluster incorporates both passenger and freight entities. **Table 2.2** details the ABS categorisation of the transport and storage sector in accordance with the Australian and New Zealand Standard Industrial Classification (ANZSIC).

2.2 The Total Cluster

The pervasive nature of T&L requires a definition of activities and occupations within both the transport and storage sector of the economy (the hire and reward component) and other (or ancillary) sectors of the economy. The combination of both components is defined as the total cluster.

Given that every sector of the economy is involved in transport and logistics, those participating in T&L activities can best be identified by focusing, initially, on relevant T&L activities and then ascertaining the corresponding employment occupations.

Table 2.3 outlines those occupations (totaling 118) whose position description incorporates at least one of the T&L activities outlined in Table 2.1.

TABLE 2.1: TRANSPORT AND LOGISTICS ACTIVITIES

PRODUCTION	<i>Warehousing and storage</i>
<i>Production flow management</i>	Warehousing
Production planning	Cross Deck
Materials handling	Regional consolidation
<i>Inventory management</i>	
<i>Packaging</i>	<i>Other transport services</i>
Packaging	Postal services
<i>Order processing</i>	Courier Services
Order management	Maritime Stevedoring
Order receipt	Freight forwarding
Labeling	Sea port services
Filling orders	Other sea transport services
Kitting	Airport and other air services
Pre-retail	Customs clearance
Co packing	Other transport support
Dispatching	Track and trace
Demand forecasting	
	PRODUCT SUPPORT
MATERIAL AND OTHER INPUTS	Parts support
Procurement	Service support
Materials management	
	REVERSE FLOWS
TRANSPORT AND STORAGE	<i>Handling, storage and transport of product returns</i>
<i>Line haul transport</i>	Returns management
Road transport	<i>Recycling and waste disposal</i>
Rail Transport	
Sea Transport	
Air Transport	
Scenic and Sightseeing Transport	
Pipelines	
Other transport	

Sources:

ACG - Apelbaum Consulting Group.
ABS - Australian Bureau of Statistics (2006).

TABLE 2.2: ANZSIC CLASSIFICATION FOR TRANSPORT AND STORAGE

SUBDIVISION	GROUP	CLASS	TITLE	DESCRIPTION
46	461	4610	Road Freight	Includes furniture removal services, postal services, log haulage, road freight services, vehicle towing, taxi trucks (with driver) and truck hire services (with driver).
	462	4621	Interurban and Rural Bus Transport	Includes charter bus and bus transport services outside the metropolitan area.
		4622	Urban Bus Transport	Includes airport, metropolitan, metropolitan charter, school and urban bus services and tramway passenger services.
		4623	Taxi and Other Road Transport	Includes hire car services, road passenger transport (n.e.c.), taxi cab management services and taxi services.
47	471	4710	Rail Freight	Excludes repair of above and below rail infrastructure.
	472	4720	Rail Passenger	Includes light, mono and heavy rail.
48	481	4810	Water Freight	Includes blue water freight between domestic ports, freight ferry services, harbour freight transport services, international services, river freight transport, ship management services, river or lake services. Excludes ship repair or refit and bareboat chartering.
	482	4820	Water Passenger	Includes boat charter, lease or rental for passenger services, ferry operation, passenger ferry service, passenger ship management, ship charter, lease or rental, water passenger transport service and water taxi service.
49	490	4900	Air and Space	Includes passenger and freight transport and time charter of aircraft. Excludes repair of aircraft, ticket sales and sight-seeing services.
50	501	5010	Scenic and Sightseeing Transport	Includes aerial cable cars, airboats, chair lifts, charter fishing, glider operations, harbour sightseeing, helicopter rides, hot air balloons, hovercraft operations, scenic railways, sightseeing buses, steam trains and whale watching cruises.
		5021	Pipeline	Includes pipeline operation for the transport of gas, oil and other material.
		5029	Other Transport n.e.c.	Transport operation n.e.c.
51	510	5101	Postal services	Includes mail service, mailbox rental, post office operation, postal agency operation.
		5102	Courier Pick-up and Delivery Services	Includes postal services, customised express pick-up and delivery, grocery delivery, home delivery, messenger services, pickup and delivery.
52	521	5211	Stevedoring Services	Includes ship loading or unloading service (provision of labour) and stevedoring services.
		5212	Port and Water Transport Terminal Operations	Includes coal loader operation (water transport), container terminals, grain loader operations, port operations, ship mooring services, freight terminals, passenger terminals, wharf operations. Excludes construction, port planning, ship repairs.
		5219	Other Water Transport Support Services	Includes ship agency, towage, lighterage, navigation services, pilotage, salvage, ship registration and agency.

TABLE 2.2 cont: ANZSIC CLASSIFICATION FOR FREIGHT TRANSPORT AND STORAGE

SUBDIVISION	GROUP	CLASS	TITLE	DESCRIPTION
52	529	5291	Customs Agency Services	Includes custom clearance service, export & import documentation. Excludes customs and border control.
		5292	Freight Forwarding Services	Includes road, rail, sea and air freight forwarding
		5299	Other Transport Support Services n.e.c.	Includes road, rail and container terminal operations, freight brokerage, road passenger terminal, road vehicle driving service, taxi radio base operation (for couriers), toll bridge operation, toll road operation and weighbridge operation. Excludes hiring and leasing of pallets.
53	530	5301	Grain Storage Services	Includes grain elevator and grain silo operation and grain storage.
		5309	Other Warehousing and Storage Services	Includes bond store operation, bulk petroleum storage, cool room storage, controlled atmosphere storage, free store operation, furniture storage, refrigerated storage, other storage, warehousing and wool storage. Excludes self storage renting or leasing.

Note:
n.e.c. - not elsewhere classified.

Source:
Australian Bureau of Statistics (2006).

TABLE 2.3: ASCO OCCUPATIONAL CLASSIFICATION

NO. TITLE	MAJOR GROUP	NO. TITLE	SUB MAJOR GROUP	NO. TITLE	MINOR GROUP	NO. TITLE	UNIT GROUP	NO. TITLE	SUB UNIT GROUP
1	MANAGERS AND ADMINISTRATORS	11	Mgrs & Admin	119	MISCELLANEOUS GENERAL MANAGERS	1192	IMPORTERS, EXPORTERS AND WHOLESALERS	11	Importer or exporter
		12	SPECIALIST MANAGERS	122	ENGINEERING, DISTRIBUTION AND PROCESS MANAGERS	1193	MANUFACTURERS	13	Wholesaler
		13	FARMERS AND FARM MANAGERS	131	FARMERS AND FARM MANAGERS	1223	SUPPLY AND DISTRIBUTION MANAGERS	11	Manufacturer
						1311	MIXED CROP AND LIVESTOCK FARMERS	11	Supply and Distribution Manager
						1312	LIVESTOCK FARMERS	11	Mixed Crop and Livestock Farmer
								11	Mixed Livestock Farmer
								13	Beef Cattle Farmer
								15	Dairy Farmer
								17	Sheep Farmer
								19	Pig Farmer
								21	Poultry Farmer
								23	Horse Breeder
								25	Apiarist (Bees)
								79	Livestock Farmers nec
						1313	CROP FARMERS	11	Grain, Oilseed and Pasture Grower
								13	Sugar Cane Grower
								15	Tobacco Grower
								17	Fruit and Nut Grower
								19	Vegetable Grower
								21	Flower Grower
								79	Crop Farmers nec
						1314	AQUACULTURE FARMERS	11	Aquaculture Farmer
						2541	AIR TRANSPORT PROFESSIONALS	11	Aircraft Pilot
								13	Air Traffic Controller
								15	Flight Service Officer
								17	Flight Engineer
								19	Flying Instructor
								79	Air Transport Professionals nec
						2542	SEA TRANSPORT PROFESSIONALS	11	Ship's Master
								13	Master Fisher
								15	Ship's Engineer
								17	Ship's Surveyor
								19	Ship's Officer
								79	Sea Transport Professionals nec
						3393	TRANSPORT COMPANY MANAGERS	11	Transport Company Manager
						3399	OTHER MANAGING SUPERVISORS (SALES AND SERVICE)	11	Post Office Manager
								13	Railway Station Manager
								19	Car Rental Agency Manager
								21	Fleet Manager
								25	Travel Agency Manager
						3491	AMBULANCE OFFICERS AND PARAMEDICS	11	Ambulance Officer
								13	Intensive Care Ambulance Paramedic
						3999	OTHER MISCELLANEOUS ASSOCIATE PROFESSIONALS	79	Associate Professionals nec
						4114	AIRCRAFT MAINTENANCE ENGINEERS	1	Supervisor, Aircraft Maintenance Engineers
								11	Aircraft Maintenance Engineer (Mechanical)
								13	Aircraft Maintenance Engineer (Structures)
								15	Aircraft Maintenance Engineer (Avionics)
								81	Apprentice Aircraft Maintenance Engineer (Mechanical)
								83	Apprentice Aircraft Maintenance Engineer (Structures)
								85	Apprentice Aircraft Maintenance Engineer (Avionics)
						4611	FARM OVERSEERS	11	Farm Overseer
						4999	OTHER MISCELLANEOUS TRADESPERSONS AND RELATED WORKERS	15	Aircraft Safety Equipment Worker

TABLE 2.3 cont: ASCO OCCUPATIONAL CLASSIFICATION

NO. TITLE	MAJOR GROUP	NO. TITLE	SUB MAJOR GROUP	NO. TITLE	MINOR GROUP	NO. TITLE	UNIT GROUP	NO. TITLE	SUB UNIT GROUP
5	ADVANCED CLERICAL AND SERVICE WORKERS	59	OTHER ADVANCED CLERICAL AND SERVICE WORKERS	599	MISCELLANEOUS ADVANCED CLERICAL AND SERVICE WORKERS	5996	TRAVEL ATTENDANTS	11	Flight Service Director
6	INTERMEDIATE CLERICAL, SALES AND SERVICE WORKERS	61	INTERMEDIATE CLERICAL WORKERS	615	MATERIAL RECORDING AND DESPATCHING CLERKS	6151	PRODUCTION RECORDING CLERKS	13	Flight Attendant
						6152	TRANSPORT RECORDING AND DESPATCHING CLERKS	15	Travel Attendants nec
								11	Production Recording Clerk
								1	Supervisor, Transport and Despatching Clerks
								11	Receiving and Despatching Clerk
								13	Import-Export Clerk
						6153	STOCK AND PURCHASING CLERKS	1	Supervisor, Stock and Purchasing Clerks
								11	Stock Clerk
								13	Purchasing Officer
								15	Order Clerk
						6194	INTERMEDIATE INSPECTORS AND EXAMINERS	11	Customs Inspector
								17	Motor vehicle license examiner
								19	Transport Operations Inspector
								21	Train Examiner
								11	Travel Agent
								15	Tour Guide
						6397	TRAVEL AND TOURISM AGENTS	11	Forklift Driver
								13	Railway Track Repair Mobile Plant Operator
								15	Streetsweeper Operator
								79	Mobile Plant Operators nec
								11	Crane Hoist and Lift Operator
								11	Railway Signal Operator
								13	Train Controller
								23	Bulk Materials Handling Plant Operator
								79	Intermediate Stationary Plant Operators
								11	Heavy Truck Driver
								13	Furniture Removalist
								11	Bus Driver
								13	Tram Driver
								11	Automobile Driver
								11	Delivery Driver
								11	Train Driver
								13	Train Driver's Assistant
								11	Miner
								1	Supervisor, Storepersons
								11	Storeperson
								11	Seafarer
								13	Fishing Hand
								11	Mail Clerk
								13	Postal Sorting Officer
								11	Courier
								13	Postal Delivery Officer
								17	Sales Assistant (Postal Services)
								13	Transport Conductor
								11	Street Vendor
								11	Service Station Attendant
								13	Armoured Car Escort
								11	Railways Assistant
								17	Car Park Attendant
								17	Vehicle Cleaner
								11	Sawmill Labourer
								15	Chemical Plant Labourer
								11	Hand Packer
								11	Packager and Container Filler
								11	Mining Support Worker
								13	Driller's Assistant
								11	Survey Hand
								11	Railway Labourer
								11	Electrical or Telecommunication Trades Assistant
								11	General Farm Hand
								11	Garbage Collector
								11	Freight Handler (Road and Rail)
								13	Waterside Worker
								15	Truck Driver's Offsider
								11	Vending Machine Attendant
								13	Sign Erector

Source:
ABS (1997), "Australian Standard Classification of Occupations", Cat 1220.0.

3.0 Availability Of Data

The review of potential data pertaining to employment within the T&L sector suggested two primary sources:

- The Australian Bureau of Statistics;
- The T&L Industry.

3.1 Australian Bureau Of Statistics

Relevant national employment and occupation data can be sourced from the Census of Population and Housing and the Labour Force Statistics collected by the Australian Bureau of Statistics (ABS).

3.1.1 *Census Of Population And Housing*

The Census of Population and Housing (CPH) is the largest statistical collection including employment by the ABS, measuring the number of people in Australia on “census night”¹⁶, their key characteristics, and the dwellings in which they live. The census is undertaken every five (5) years with the most recent being completed in August 2006.

With regard to employment, the 2006 Australian CPH compiles information pertaining to industry or business employment, business name, main occupation, State/Territory of location, full or part time employment and main tasks. Industry classifications are in accordance with the Australian and New Zealand Standard Industrial Classification (ANZSIC 1993 and ANZSIC 2006), while the main occupation and associated activities are categorised according to the ABS Australian Classification of Occupations (ASCO)¹⁷ and the Australian and New Zealand Standard Classification of Occupations (ANZSCO)¹⁸. “Rich” census data was only available in ANZSIC 1993 and ASCO. ASCO is also used in all ABS surveys where occupation data are collected, including the Labour Force Survey. The coding systems are based on an index (or codefile) of responses given in ABS collections. Primary importance is given to the occupation title while extensive use is also made of main tasks performed in the job. The census excludes “citizens and residents who are out of the country on census night ... unless they have left the country without being required to undertake departure formalities”.

From an employment perspective the census collects the following information:

- Main occupation of members of each household in accordance with the ASCO and the ANZSCO classifications, to six digit level;
- Main tasks – used to define the occupation of the respondent and is not available as output;
- Business name – used to assist in defining the occupation of the respondent and is not available as output;
- Industry or business of employment – as per the ANZSIC classification;

¹⁶ 8 August 2006.

¹⁷ Australian Bureau of Statistics (1997), “Australian Standard Classification of Occupations”, Cat. No. 1220.0, Second Edition.

¹⁸ Australian Bureau of Statistics (2006), “Australian and New Zealand Standard Classification of Occupations”, Cat. No. 1220.0, First Edition.

- Gender;
- Age – collected by single years of age but made available to the ACG according to age cohorts (in years) 15-19, 20-24, 25-34, 35-44, 45-49, 50-54, 55-59, 60-64, 65-69 and 70 or greater;
- State/location of employment;
- Hours worked – reflects hours worked during census week and consists of a large number of nil values¹⁹ (arising in part from personnel who were away from work during census week). The incidence of part timers working more than thirty-five (35) hours per week, full timers working less than thirty-five (35) hours per week and the broad nature of the output as provided to ACG (0, 1-34, 35-44 and 45 or more) detracts from meaningful delineation between full time or part time.

3.1.2 Labour Force Statistics

The ABS Labour Force (LF) statistics estimate “the civilian labour force derived from the Labour Force Survey component of the Monthly Population Survey”²⁶. The survey is “based on a multi-stage area sample of private dwellings (currently about 30,000 houses, flats, etc.) and a list sample of non-private dwellings (hotels, motels, etc) encompassing approximately 0.45 per cent of the population of Australia”²⁰. The LF statistics rely upon the CPH for population benchmarking of discreet variables such as age and sex. The census assists in re-calibrating the official population estimates which are then used to produce benchmarks for extending the LF statistics to the wider population. The primary role of the ABS LF statistics is to provide an ongoing assessment of employment between census collections.

The LF survey excludes “permanent defence forces, certain diplomatic personnel of overseas Governments customarily excluded from census and estimated population counts, overseas residents in Australia, and members of non-Australian defence forces (and their dependants) stationed in Australia”¹² though this is subsequently adjusted by the ABS. Further, the LF data categorises occupations to the four digit level (rather than the six (6) digit level provided by the census) and to the three (3) digit level for industry sector (rather than the four (4) digit level provided by the census). Refinement by occupation is of paramount importance for a clear definition of T&L workforce participation. Accordingly, the census is regarded as the only national employment collection that provides an appropriate level of occupation classification.

3.2 Industry Data

Consultation with key industry stakeholders (see **Appendix A** for a listing of industry stakeholders involved in the consultation process) and the ABS indicated that while some data was available to identify those employed whose job descriptions involved at least one T&L task, the data was incomplete with regard to total participation and key attributes. Hence, industry data was not utilised in the analysis.

¹⁹ DEEWR (2008), pers. comm.

²⁰ Australian Bureau of Statistics (2008), “Labour Force Australia”, Cat No. 6202.0.

4.0 Workforce Participation In The Transport And Logistics Sector

As at August 2006, the ABS LF statistics identified 10,167,981 participants in the national workforce compared with 9,104,175 reported by the CPH as employed. At the six digit level, the CPH identified 8,404,063 employed nationally (for all sectors) which is 700,112 or 7.7 per cent lower than the one digit value due to the number of “not stated or not classified” entries arising from the degree of refinement of the occupation classification.

For the T&S sector, the LF statistics reported 464,580 workforce participants, compared with 403,421 and 378,827 by the CPH at the one digit and six digit levels, respectively. Since August 2006, national employment has grown by 505,389 or almost 5 per cent while T&S employment increased at a greater rate of 8.7 per cent or 40,271 persons²¹. **Table 4.1** summarises the various employment values by jurisdiction as derived by the ABS CPH and the LF statistics, for 2006 and 2008.

TABLE 4.1: T&S WORKFORCE PARTICIPATION BY COLLECTION AND JURISDICTION

Industry	Source	Definition			Jurisdiction									
		Level	Year		NSW	VIC	QLD	SA	WA	TAS	NT	ACT	Other Territories	AUSTRALIA
T&S	Census	6 Digit	2006	Number	129,642	88,493	84,165	25,092	35,553	8,356	3,837	3,629	60	378,827
				Row per cent	34.2%	23.4%	22.2%	6.6%	9.4%	2.2%	1.0%	1.0%	0.02%	100.0%
				Col per cent	4.8%	4.3%	5.0%	3.9%	4.1%	4.4%	4.9%	2.2%	6.3%	4.5%
T&S	Census	1 Digit	2006	Number	138,579	94,569	89,248	26,645	37,498	8,812	4,170	3,828	72	403,421
				Row per cent	34.4%	23.4%	22.1%	6.6%	9.3%	2.2%	1.0%	0.9%	0.02%	100.0%
				Col per cent	4.8%	4.2%	4.9%	3.9%	4.0%	4.3%	4.8%	2.2%	6.7%	4.4%
T&S	Labour Force	1 Digit	2006	Number	155,706	107,708	109,545	32,692	42,707	9,188	4,292	3,011	0	464,850
				Row per cent	33.5%	23.2%	23.6%	7.0%	9.2%	2.0%	0.9%	0.6%	0.0%	100.0%
				Col per cent	4.8%	4.3%	5.3%	4.4%	4.0%	4.2%	4.3%	1.6%	0.0%	4.6%
T&S	Labour Force	1 Digit	2008	Number	173,873	110,633	128,352	27,843	46,753	7,603	5,532	4,533	0	505,122
				Row per cent	34.4%	21.9%	25.4%	5.5%	9.3%	1.5%	1.1%	0.9%	0.0%	100.0%
				Col per cent	5.2%	4.2%	5.8%	3.6%	4.0%	3.2%	4.9%	2.4%	0.0%	4.7%
ALL	Census	6 Digit	2006	Number	2,686,710	2,081,108	1,691,456	640,121	871,464	191,163	78,433	162,657	951	8,404,063
				Row per cent	32.0%	24.8%	20.1%	7.6%	10.4%	2.3%	0.9%	1.9%	0.01%	100.0%
ALL	Census	1 Digit	2006	Number	2,909,445	2,274,441	1,824,997	689,895	936,120	204,746	87,179	176,281	1,071	9,104,175
				Row per cent	32.0%	25.0%	20.0%	7.6%	10.3%	2.2%	1.0%	1.9%	0.01%	100.0%
ALL	Labour Force	1 Digit	2006	Number	3,274,445	2,514,920	2,052,239	750,270	1,065,193	220,863	100,822	189,229	0	10,167,981
				Row per cent	32.2%	24.7%	20.2%	7.4%	10.5%	2.2%	1.0%	1.9%	0.0%	100.0%
ALL	Labour Force	1 Digit	2008	Number	3,365,538	2,623,967	2,203,852	776,361	1,160,731	239,559	111,812	191,549	0	10,673,370
				Row per cent	31.5%	24.6%	20.6%	7.3%	10.9%	2.2%	1.0%	1.8%	0.0%	100.0%

Sources:

DEEWR (2008), pers. comm.
ABS (2008a).

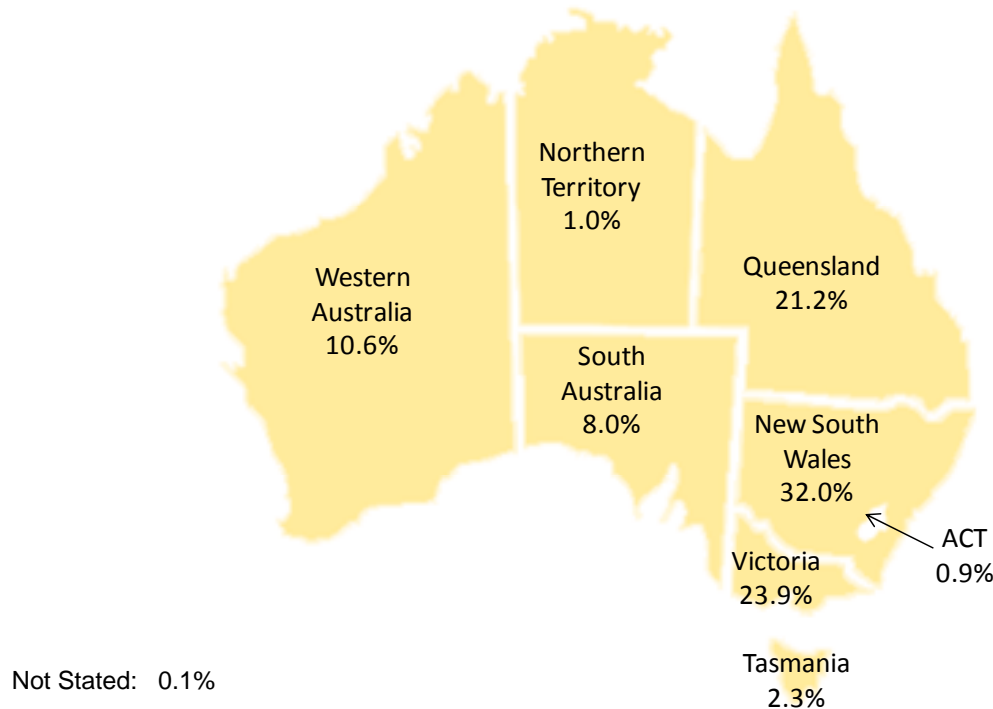
²¹ As at August 2008.

Given the variations in employment estimates between the LF and CPH collections and the importance of defining T&L workforce participation by occupation at the six digit level it was necessary to impute T&L participation from the 6 digit CPH collection relative to the one digit CPH frame. The imputation assumed that the distribution of occupation participation at the one digit level is identical to that at the six digit level, for each jurisdiction. Subsequent attribute analysis reflects the small six digit CPH data. **Appendix B** details the methodology adopted in deriving T&L participation in the workforce.

4.1 Participation Of T&L In The Australian Workforce

Based upon the six digit CPH data, T&L workforce participation equates to 1,170,421 persons with NSW, Victoria and Queensland generating 910,427 persons or 77.0 per cent of the national T&L workforce participation. Imputation to reflect the CPH population at the one digit level²², suggests that the T&L workforce participation approximates 1,246,406 persons (as at August 2006) of which 32.0 per cent, 23.9 per cent and 21.2 per cent were generated by the NSW, Queensland and Victorian economies, respectively. The 2006 T&L participation is equivalent to 13.9 per cent of the national workforce aggregate. **Figure 4.1** details the T&L workforce population as at August 2006.

FIGURE 4.1: T&L WORKFORCE PARTICIPATION BY JURISDICTION, 2006



Source:
Table C3.2.

²² By factoring the CPH six digit data according to the ratio of the CPH one digit value to the CPH six digit value, for each jurisdiction.

4.2 A Description Of T&L Participation In The Workforce

In order to gain a better understanding of the T&L workforce, the description of T&L participation in the workforce encompasses delineation by:

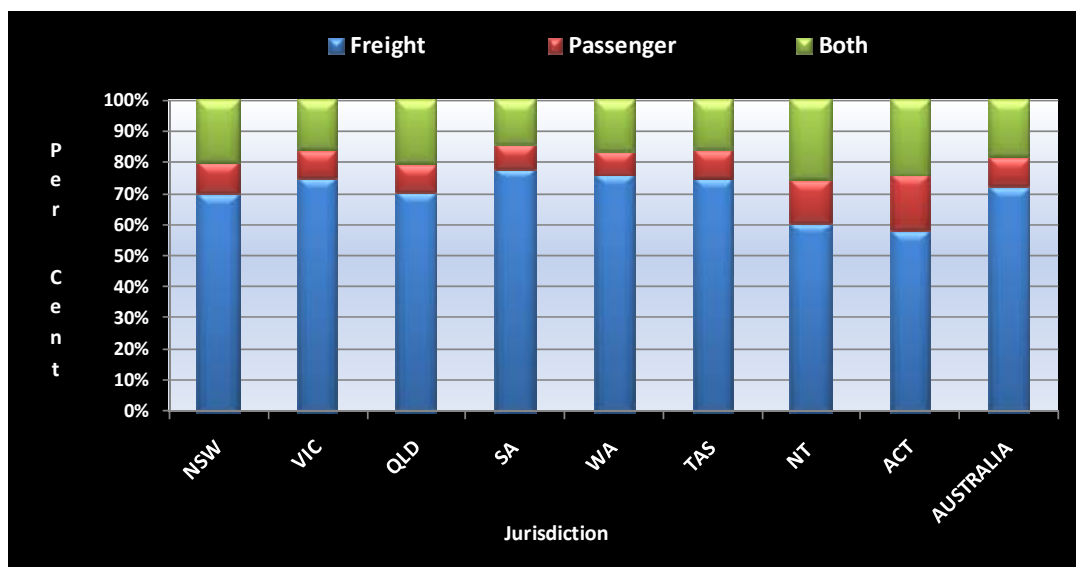
- Passenger and freight sectors;
- Gender;
- Age;
- Educational qualification.

4.2.1 Passenger And Freight Sectors

Of the 1,170,421 T&L workforce participants identified according to the six digit CPH, 72.4 per cent (or 847,582 persons) were attributed to the freight sector (on the basis of predominant activity), 9.4 per cent (or 109,781 persons) to passenger transport with the remaining 18.2 per cent (212,406) attributed to both the freight or passenger sectors. With regard to the freight sector, the Northern Territory demonstrated the smallest proportional contingent (60.9 per cent) with South Australia at the highest (78.2 per cent).

On a two sectoral basis (that is excluding “both” occupations), the freight sector represented 88.5 per cent of national T&L participants. **Figure 4.2** illustrates the sectoral distribution by jurisdiction, as at August 2006. Table C3.4 in Appendix C details the classification of each T&L occupation by sector.

FIGURE 4.2: T&L WORKFORCE PARTICIPATION BY SECTOR AND JURISDICTION, 2006

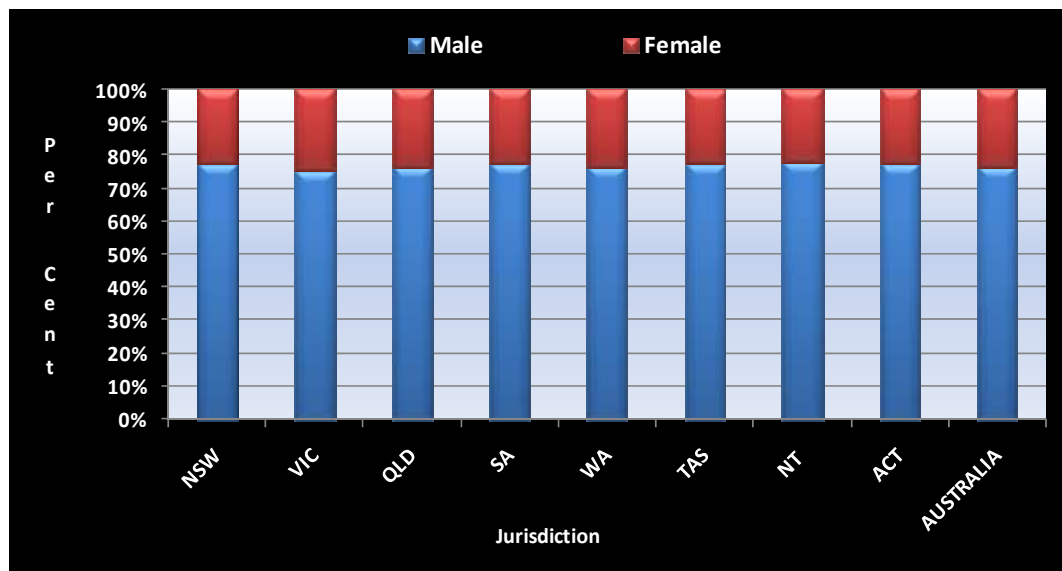


Source:
Table C3.3.

4.2.2 Gender

More than three quarters (76.7 per cent) of those participating in T&L activities are male. Female participation differed by jurisdiction varying from 21.8 per cent in the Northern Territory to 24.3 per cent in Victoria. **Figure 4.3** summarises the T&L workforce participation by gender and jurisdiction.

FIGURE 4.3: T&L WORKFORCE PARTICIPATION BY GENDER AND JURISDICTION, 2006



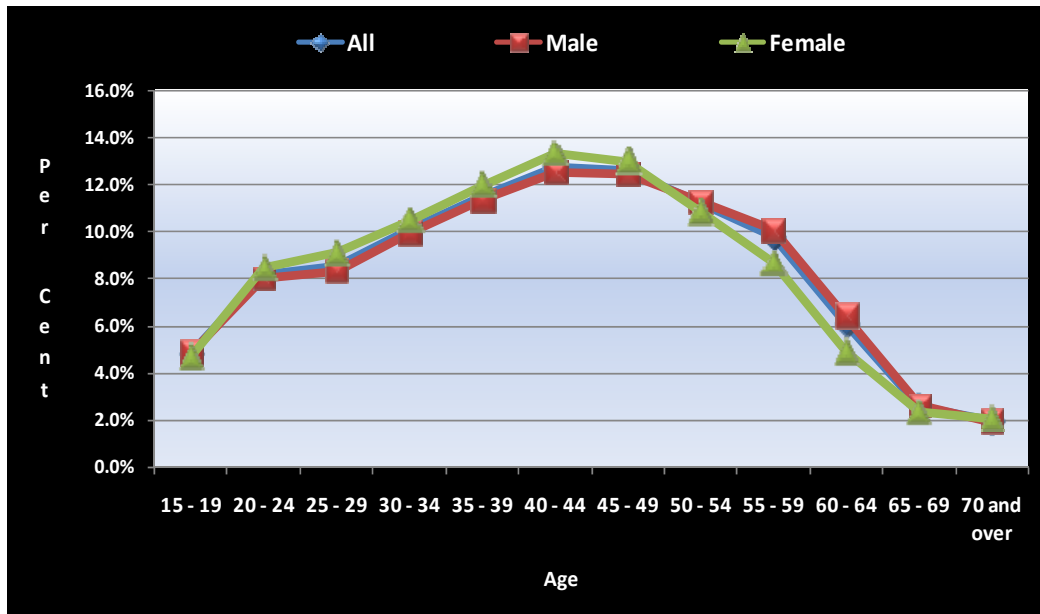
Source:
Table C3.5.

4.2.3 Age

Figures 4.4 and 4.5 outline the distribution of T&L workforce participants by age/gender and age/jurisdiction. A review of the figures indicate the following:

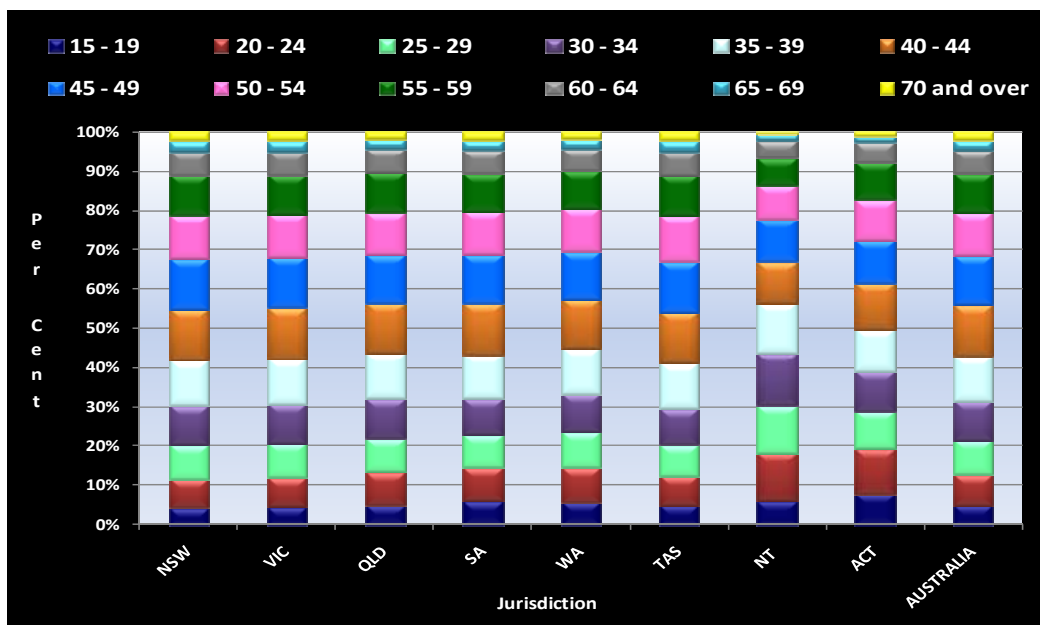
- 55.8 per cent of national T&L participants are aged 44 years or younger with 20.4 per cent 55 years or older;
- Female participants tend to be younger than their male counterparts with 58.1 per cent of females 44 years or younger compared with 55.1 per cent for males;
- 54.3 per cent of Tasmanian participants are 44 years or younger compared with 54.7 per cent in NSW, 55.3 per cent in Victoria, 56.2 per cent in South Australia, 56.4 per cent in Queensland, 57.4 per cent in Western Australia, 61.8 per cent in the ACT and 67.2 per cent in the Northern Territory.

FIGURE 4.4: T&L WORKFORCE PARTICIPATION BY AGE AND GENDER, 2006



Source:
Table C3.5.

FIGURE 4.5: T&L WORKFORCE PARTICIPATION BY AGE AND JURISDICTION, 2006



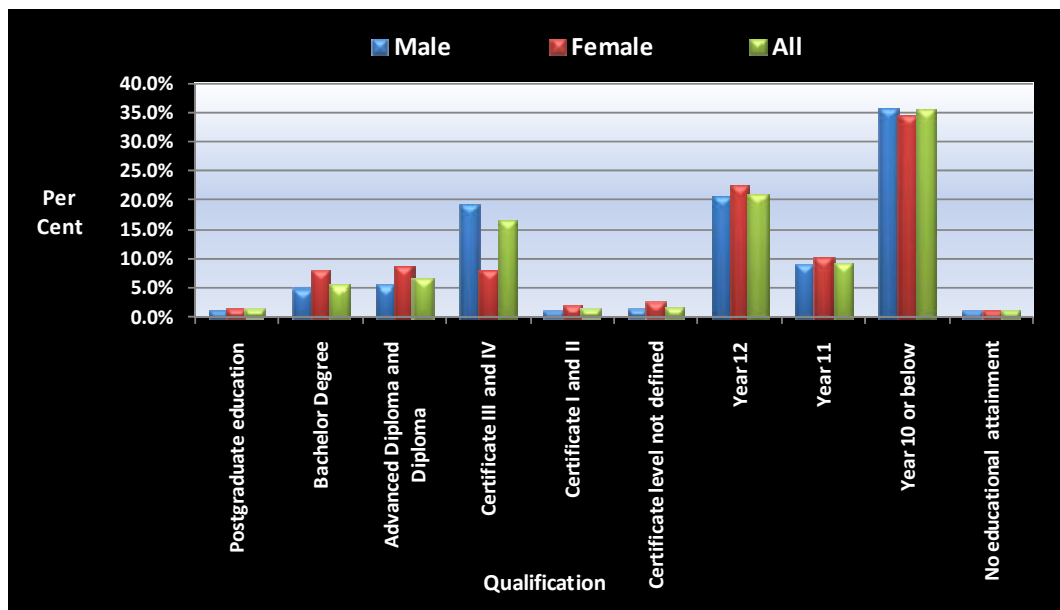
Source:
Table C3.6.

4.2.4 Level Of Education

Figure 4.6 illustrates T&L workforce participation by educational qualification²³ and gender on a national basis. **Table A3.7** provides the underlying analysis by jurisdiction. A review of the figure and the associated table indicates the following:

- The largest single educational level is year 10 or below which constitutes 35.5 per cent of those participating in T&L activities. The proportional representation of year 10 or below achievers does not alter significantly by gender;
- The female workforce have, on average, higher education levels with 18.3 per cent of females achieving a diploma or higher compared with 11.7 per cent for males;
- Alternatively 21.8 per cent of males achieved a certificate standard compared with 13.0 per cent for females;
- Only 1.3 per cent of all participants did not achieve any of the categorized educational levels;
- Thirty-three (33.0) per cent of all participants attained an educational level greater than year 12.

FIGURE 4.6: T&L WORKFORCE PARTICIPATION BY EDUCATIONAL QUALIFICATION AND GENDER, 2006



Source:
Table C3.7.

²³ Educational qualification gives precedence to non-school qualifications of any kind. That is, only those with no non-school qualifications or "not stated" qualifications are given by the highest school year.

Appendix A: The ALC Data Steering Committee

Name	Organisation
Mr. Chris Egger	National Transport Commission
Mr. David Anderson	Ports Australia (Chairman)
Mr. David Hunt	Australian Customs
Ms Tania Davies	Australasian Railway Association Inc
Mr. Godfrey Lubulwa	Bureau of Infrastructure, Transport and Regional Economics
Mr. John Apelbaum	Apelbaum Consulting Group
Mr. Len Harper	Chartered Institute of Logistics & Transport in Australia
Ms. Amanda Thomas	Transport and Logistics Industry Skills Council
Ms. Marnie Tisot	Queensland Transport
Ms. Melinda Buker	Australian Logistics Council (ALC Program Director)
Ms. Sally Pritchard	Australian Bureau of Statistics

Appendix B: Methodology

Having identified those occupations (to the six (6) digit level) that pertain to Australian transport and logistics activities, the methodology to derive participation, by jurisdiction encompassed the following:

1. Ascertain the total employed by the H&R sector by occupation (at the 6 digit level) by identifying the number of participants in the sector with occupations detailed in Table 2.3;
2. These employees were removed from the national aggregate to identify participation (for the nominated occupations) within the ancillary T&L sector;
3. The total number of participants in the H&R (for all occupations) was identified and added to the ancillary component in step 2 to derive total T&L participation.

Appendix C: Other Tables

TABLE C3.1: T&L WORKFORCE PARTICIPATION BY JURISDICTION AT THE CPH 6 DIGIT LEVEL

	Jurisdiction									AUSTRALIA
	NSW	VIC	QLD	SA	WA	TAS	NT	ACT	Other ¹	
Number	372,619	279,238	249,570	93,580	125,498	27,154	11,668	10,270	824	1,170,421
Per cent	31.8%	23.9%	21.3%	8.0%	10.7%	2.3%	1.0%	0.9%	0.1%	100.0%

Note:

1. Includes 652 train operations inspectors, examiners and other territories.

Source:

DEEWR (2008), pers. comm.

TABLE C3.2: IMPUTED T&L WORKFORCE PARTICIPATION

	Jurisdiction									AUSTRALIA
	NSW	VIC	QLD	SA	WA	TAS	NT	ACT	Other ¹	
Number	398,306	298,411	264,642	99,372	132,364	28,636	12,681	10,833	1,162	1,246,406
Per cent	32.0%	23.9%	21.2%	8.0%	10.6%	2.3%	1.0%	0.9%	0.1%	100.0%

Note:

1. Includes train operations inspectors, examiners and other territories.

Sources:

Apelbaum Consulting Group.
DEEWR (2008), pers. comm.

TABLE C3.3: T&L WORKFORCE PARTICIPATION BY SECTOR AND JURISDICTION, 6 DIGIT LEVEL

	Jurisdiction										AUSTRALIA
	NSW	VIC	QLD	SA	WA	TAS	NT	ACT	Other Territories	Other	
Freight	260,062	209,873	175,714	73,175	95,271	20,310	7,106	5,977	94	n.a.	847,582
Col %	69.8%	75.2%	70.4%	78.2%	75.9%	74.8%	60.9%	58.2%	54.7%	n.a.	72.4%
Passenger	38,801	24,665	23,007	7,147	10,110	2,609	1,588	1,825	29	n.a.	109,781
Col %	10.4%	8.8%	9.2%	7.6%	8.1%	9.6%	13.6%	17.8%	16.9%	n.a.	9.4%
Both	73,756	44,700	50,849	13,258	20,117	4,235	2,974	2,468	49	652	212,406
Col %	19.8%	16.0%	20.4%	14.2%	16.0%	15.6%	25.5%	24.0%	28.5%	n.a.	18.1%
Total	372,619	279,238	249,570	93,580	125,498	27,154	11,668	10,270	172	652	1,170,421
Col %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	n.a.	100.0%

Notes:

n.a. - not available.

Other involves 652 train operations inspectors and examiners.

Sources:

Apelbaum Consulting Group.

DEEWR (2008), pers. comm.

TABLE C3.4: OCCUPATION CLASSIFICATION BY SECTOR

Occupation	Designation ¹
119211 Importer or Exporter	F
1192-13 Wholesaler	F
1193-11 Manufacturer	F
1223-11 Supply and Distribution Manager	F
1311-11 Mixed Crop and Livestock Farmer	F
1312-11 Mixed Livestock Farmer	F
1312-13 Beef Cattle Farmer	F
1312-15 Dairy Farmer	F
1312-17 Sheep Farmer	F
1312-19 Pig Farmer	F
1312-21 Poultry Farmer	F
1312-23 Horse Breeder	F
1312-25 Apiarist (Bees)	F
1312-79 Livestock Farmers nec	F
1313-11 Grain, Oilseed and Pasture Grower	F
1313-13 Sugar Cane Grower	F
1313-15 Tobacco Grower	F
1313-17 Fruit and Nut Grower	F
1313-19 Vegetable Grower	F
1313-21 Flower Grower	F
1313-79 Crop Farmers nec	F
1314-11 Aquaculture Farmer	F
2541-11 Aircraft Pilot	B
2541-13 Air Traffic Controller	B
2541-15 Flight Service Officer	B
2541-17 Flight Engineer	B
2541-19 Flying Instructor	B
2541-79 Air Transport Professionals nec	B
2542-11 Ship's Master	F
2542-13 Master Fisher	F
2542-15 Ship's Engineer	F
2542-17 Ship's Surveyor	B
2542-19 Ship's Officer	F
2542-79 Sea Transport Professionals nec	B
3393-11 Transport Company Manager	B
3399-11 Post Office Manager	F
3399-13 Railway Station Manager	P
3399-19 Car Rental Agency Manager	P
3399-21 Fleet Manager	B
3399-25 Travel Agency Manager	P
3491-11 Ambulance Officer	P
3491-13 Intensive Care Ambulance Paramedic	P
3999-79 Associate Professionals nec	P
4114-01 Supervisor, Aircraft Maintenance Engineers	B
4114-11 Aircraft Maintenance Engineer (Mechanical)	B
4114-13 Aircraft Maintenance Engineer (Structures)	B
4114-15 Aircraft Maintenance Engineer (Avionics)	B
4114-81 Apprentice Aircraft Maintenance Engineer (Mechanical)	B
4114-83 Apprentice Aircraft Maintenance Engineer (Structures)	B
4114-85 Apprentice Aircraft Maintenance Engineer (Avionics)	B
4611-11 Farm Overseer	F
4999-15 Aircraft Safety Equipment Worker	B
5996-11 Flight Service Director	B
5996-13 Flight Attendant	P
5996-79 Travel Attendants nec	P
6151-11 Production Recording Clerk	F
6152-01 Supervisor, Transport and Despatching Clerks	F
6152-11 Receiving and Despatching Clerk	F
6152-13 Import-Export Clerk	F
6153-01 Supervisor, Stock and Purchasing Clerks	F
6153-11 Stock Clerk	F
6153-13 Purchasing Officer	F
6153-15 Order Clerk	B
6194-11 Customs Inspector	B
6194-17 Motor vehicle licence examiner	B
6194-19 Transport Operations Inspector	B
6194-21 Train Examiner	B
6397-11 Travel Agent	P
6397-15 Tour Guide	P
7112-11 Forklift Driver	F
7119-13 Railway Track Repair Mobile Plant Operator	B
7119-15 Streetsweeper Operator	F

TABLE C3.4 cont: OCCUPATION CLASSIFICATION BY SECTOR

Occupation	Designation ¹
7119-79 Mobile Plant Operators nec	B
7122-11 Crane, Hoist or Lift Operator	B
7129-11 Railway Signal Operator	B
7129-13 Train Controller	B
7129-23 Bulk Materials Handling Plant Operator	F
7129-79 Intermediate Stationary Plant Operators nec	F
7311-11 Heavy Truck Driver	F
7311-13 Furniture Removalist	F
7312-11 Bus Driver	P
7312-13 Tram Driver	P
7313-11 Automobile Driver	P
7314-11 Delivery Driver	F
7315-11 Train Driver	B
7315-13 Train Driver's Assistant	B
7911-11 Miner	F
7993-01 Supervisor, Storepersons	F
7993-11 Storeperson	F
7994-11 Seafarer	B
7994-13 Fishing Hand	F
8112-11 Mail Clerk	F
8112-13 Postal Sorting Officer	F
8114-11 Courier	F
8114-13 Postal Delivery Officer	F
8211-17 Sales Assistant (Postal Services)	F
8292-13 Transport Conductor	P
8293-11 Street Vendor	F
8296-11 Service Station Attendant	B
8311-13 Armoured Car Escort	F
8319-11 Railways Assistant	B
8319-17 Car Park Attendant	P
9111-17 Vehicle Cleaner	B
9215-11 Sawmill Labourer	F
9219-15 Chemical Plant Labourer	F
9221-11 Hand Packer	F
9222-11 Packager and Container Filler	F
9911-11 Mining Support Worker	F
9911-13 Driller's Assistant	F
9914-11 Survey Hand	F
9915-11 Railway Labourer	B
9918-11 Electrical or Telecommunications Trades Assistant	F
9921-11 General Farm Hand	F
9991-11 Garbage Collector	F
9992-11 Freight Handler (Road and Rail)	F
9992-13 Waterside Worker	F
9992-15 Truck Driver's Offsider	F
9999-11 Vending Machine Attendant	F
9999-13 Sign Erector	F

Notes:

F - Freight
P - Passenger
B - Both

Source:

Apelbaum Consulting Group.

TABLE C3.5: T&L WORKFORCE PARTICIPATION BY GENDER AND JURISDICTION, 6 DIGIT LEVEL

Gender		Jurisdiction									AUSTRALIA
		NSW	VIC	QLD	SA	WA	TAS	NT	ACT	Other ¹	
Male	Number	256,097	192,858	170,071	67,068	88,630	19,211	8,226	7,020	117	809,298
	Row %	31.6%	23.8%	21.0%	8.3%	11.0%	2.4%	1.0%	0.9%	0.0%	100.0%
	Col %	77.5%	75.7%	76.3%	77.3%	76.6%	77.8%	78.2%	77.3%	86.7%	76.7%
Female	Number	74,293	61,999	52,887	19,657	27,100	5,474	2,290	2,059	18	245,777
	Row %	30.2%	25.2%	21.5%	8.0%	11.0%	2.2%	0.9%	0.8%	0.0%	100.0%
	Col %	22.5%	24.3%	23.7%	22.7%	23.4%	22.2%	21.8%	22.7%	13.3%	23.3%
Sub total	Number	330,390	254,857	222,958	86,725	115,730	24,685	10,516	9,079	135	1,055,075
	Row %	31.3%	24.2%	21.1%	8.2%	11.0%	2.3%	1.0%	0.9%	0.0%	100.0%
	Col %	88.7%	91.3%	89.3%	92.7%	92.2%	90.9%	90.1%	88.4%	16.4%	90.1%
Not stated	Number	42,229	24,381	26,612	6,855	9,768	2,469	1,152	1,191	689	115,346
	Row %	36.6%	21.1%	23.1%	5.9%	8.5%	2.1%	1.0%	1.0%	0.6%	100.0%
	Col %	11.3%	8.7%	10.7%	7.3%	7.8%	9.1%	9.9%	11.6%	83.6%	9.9%
Total	Number	372,619	279,238	249,570	93,580	125,498	27,154	11,668	10,270	824	1,170,421

Note:

1. Includes 652 train inspectors, examiners and other territories.

Source:

DEEWR (2008), pers. comm.

TABLE C3.6: T&L WORKFORCE PARTICIPATION BY AGE, GENDER AND JURISDICTION, 6 DIGIT LEVEL¹

Gender		Jurisdiction																				
		NSW		VIC		QLD		SA		WA		TAS		NT		ACT		Other ²		AUSTRALIA		
		Number	Col %	Number	Col %	Number	Col %	Number	Col %	Number	Col %	Number	Col %	Number	Col %	Number	Col %	Number	Col %	Number	Col %	
Male	15 - 19	10,819	3.3%	8,983	3.5%	8,534	3.8%	4,080	4.7%	5,053	4.4%	891	3.6%	478	4.5%	583	6.4%	0	0.0%	39,421	3.7%	
	20 - 24	19,359	5.9%	14,694	5.8%	13,928	6.2%	5,900	6.8%	7,909	6.8%	1,440	5.8%	1,000	9.5%	754	8.3%	21	16.0%	65,005	6.2%	
	25 - 29	21,369	6.5%	16,084	6.3%	13,990	6.3%	5,514	6.4%	7,607	6.6%	1,500	6.1%	930	8.8%	645	7.1%	3	2.0%	67,642	6.4%	
	30 - 34	25,880	7.8%	19,355	7.6%	17,006	7.6%	6,323	7.3%	8,637	7.5%	1,785	7.2%	1,055	10.0%	634	7.0%	8	6.6%	80,684	7.6%	
	35 - 39	28,606	8.7%	22,058	8.7%	19,420	8.7%	7,559	8.7%	10,216	8.8%	2,188	8.9%	1,043	9.9%	730	8.0%	12	9.7%	91,833	8.7%	
	40 - 44	32,413	9.8%	24,474	9.6%	21,065	9.4%	8,441	9.7%	10,843	9.4%	2,500	10.1%	922	8.8%	837	9.2%	14	11.2%	101,510	9.6%	
	45 - 49	32,731	9.9%	24,199	9.5%	20,816	9.3%	8,316	9.6%	10,736	9.3%	2,442	9.9%	894	8.5%	734	8.1%	11	8.9%	100,880	9.6%	
	50 - 54	29,455	8.9%	21,785	8.5%	19,175	8.6%	7,414	8.5%	9,765	8.4%	2,276	9.2%	733	7.0%	760	8.4%	9	7.3%	91,373	8.7%	
	55 - 59	26,466	8.0%	19,269	7.6%	17,429	7.8%	6,543	7.5%	8,769	7.6%	2,004	8.1%	579	5.5%	719	7.9%	24	19.1%	81,803	7.8%	
	60 - 64	16,633	5.0%	12,489	4.9%	11,420	5.1%	4,103	4.7%	5,412	4.7%	1,267	5.1%	386	3.7%	417	4.6%	6	4.4%	52,133	4.9%	
	65 - 69	7,038	2.1%	5,460	2.1%	4,321	1.9%	1,597	1.8%	2,218	1.9%	515	2.1%	148	1.4%	125	1.4%	3	2.2%	21,425	2.0%	
	70 and over	5,328	1.6%	4,008	1.6%	2,967	1.3%	1,278	1.5%	1,465	1.3%	403	1.6%	58	0.6%	82	0.9%	0	0.0%	15,589	1.5%	
	Sub total	256,097	77.5%	192,858	75.7%	170,071	76.3%	67,068	77.3%	88,630	76.6%	19,211	77.8%	8,226	78.2%	7,020	77.3%	112	87.2%	809,298	76.7%	
	Female	15 - 19	3,043	0.9%	2,420	0.9%	2,771	1.2%	1,104	1.3%	1,677	1.4%	297	1.2%	140	1.3%	142	1.6%	3	2.3%	11,597	1.1%
		20 - 24	5,765	1.7%	4,951	1.9%	4,781	2.1%	1,711	2.0%	2,511	2.2%	469	1.9%	311	3.0%	264	2.9%	3	2.2%	20,766	2.0%
		25 - 29	6,619	2.0%	5,749	2.3%	5,001	2.2%	1,504	1.7%	2,507	2.2%	421	1.7%	351	3.3%	251	2.8%	3	2.2%	22,406	2.1%
		30 - 34	7,796	2.4%	6,611	2.6%	5,780	2.6%	1,819	2.1%	2,739	2.4%	496	2.0%	329	3.1%	260	2.9%	3	2.2%	25,833	2.4%
35 - 39		8,931	2.7%	7,360	2.9%	6,475	2.9%	2,259	2.6%	3,216	2.8%	665	2.7%	299	2.8%	257	2.8%	0	0.0%	29,462	2.8%	
40 - 44		10,255	3.1%	8,276	3.2%	7,007	3.1%	2,537	2.9%	3,538	3.1%	747	3.0%	209	2.0%	254	2.8%	3	2.2%	32,826	3.1%	
45 - 49		9,827	3.0%	8,443	3.3%	6,566	2.9%	2,511	2.9%	3,404	2.9%	755	3.1%	229	2.2%	232	2.6%	0	0.0%	31,967	3.0%	
50 - 54		8,147	2.5%	6,865	2.7%	5,533	2.5%	2,224	2.6%	2,990	2.6%	583	2.4%	174	1.7%	192	2.1%	3	2.2%	26,711	2.5%	
55 - 59		6,545	2.0%	5,483	2.2%	4,412	2.0%	1,852	2.1%	2,278	2.0%	494	2.0%	137	1.3%	121	1.3%	0	0.0%	21,322	2.0%	
60 - 64		3,772	1.1%	3,037	1.2%	2,512	1.1%	1,152	1.3%	1,208	1.0%	280	1.1%	86	0.8%	67	0.7%	0	0.0%	12,114	1.1%	
65 - 69		1,816	0.5%	1,450	0.6%	1,171	0.5%	534	0.6%	585	0.5%	156	0.6%	19	0.2%	6	0.1%	0	0.0%	5,737	0.5%	
70 and over		1,777	0.5%	1,354	0.5%	878	0.4%	450	0.5%	447	0.4%	111	0.4%	6	0.1%	13	0.1%	0	0.0%	5,036	0.5%	
Sub total		74,293	22.5%	61,999	24.3%	52,887	23.7%	19,657	22.7%	27,100	23.4%	5,474	22.2%	2,290	21.8%	2,059	22.7%	16	12.8%	245,777	23.3%	
Total		15 - 19	13,862	4.2%	11,403	4.5%	11,305	5.1%	5,184	6.0%	6,730	5.8%	1,188	4.8%	618	5.9%	725	8.0%	3	2.1%	51,018	4.8%
		20 - 24	25,124	7.6%	19,645	7.7%	18,709	8.4%	7,611	8.8%	10,420	9.0%	1,909	7.7%	1,311	12.5%	1,018	11.2%	23	18.3%	85,771	8.1%
		25 - 29	27,988	8.5%	21,833	8.6%	18,991	8.5%	7,018	8.1%	10,114	8.7%	1,921	7.8%	1,281	12.2%	896	9.9%	5	4.2%	90,048	8.5%
		30 - 34	33,676	10.2%	25,966	10.2%	22,786	10.2%	8,142	9.4%	11,376	9.8%	2,281	9.2%	1,384	13.2%	894	9.8%	11	8.8%	106,517	10.1%
	35 - 39	37,537	11.4%	29,418	11.5%	25,895	11.6%	9,818	11.3%	13,432	11.6%	2,853	11.6%	1,342	12.8%	987	10.9%	12	9.5%	121,295	11.5%	
	40 - 44	42,668	12.9%	32,750	12.9%	28,072	12.6%	10,978	12.7%	14,381	12.4%	3,247	13.2%	1,131	10.8%	1,091	12.0%	17	13.4%	134,336	12.7%	
	45 - 49	42,558	12.9%	32,642	12.8%	27,382	12.3%	10,827	12.5%	14,140	12.2%	3,197	13.0%	1,123	10.7%	966	10.6%	11	8.7%	132,847	12.6%	
	50 - 54	37,602	11.4%	28,650	11.2%	24,708	11.1%	9,638	11.1%	12,755	11.0%	2,859	11.6%	907	8.6%	952	10.5%	12	9.6%	118,084	11.2%	
	55 - 59	33,011	10.0%	24,752	9.7%	21,841	9.8%	8,395	9.7%	11,047	9.5%	2,498	10.1%	716	6.8%	840	9.3%	24	19.0%	103,125	9.8%	
	60 - 64	20,405	6.2%	15,526	6.1%	13,932	6.2%	5,255	6.1%	6,620	5.7%	1,547	6.3%	472	4.5%	484	5.3%	6	4.4%	64,247	6.1%	
	65 - 69	8,854	2.7%	6,910	2.7%	5,492	2.5%	2,131	2.5%	2,803	2.4%	671	2.7%	167	1.6%	131	1.4%	3	2.2%	27,162	2.6%	
	70 and over	7,105	2.2%	5,362	2.1%	3,845	1.7%	1,728	2.0%	1,912	1.7%	514	2.1%	64	0.6%	95	1.0%	0	0.0%	20,625	2.0%	
	Sub total	330,390	100.0%	254,857	100.0%	222,958	100.0%	86,725	100.0%	115,730	100.0%	24,685	100.0%	10,516	100.0%	9,079	100.0%	128	100.0%	1,055,076	100.0%	
	Not stated	42,229	11.3%	24,381	8.7%	26,612	10.7%	6,855	7.3%	9,768	7.8%	2,469	9.1%	1,152	9.9%	1,191	11.6%	689	84.3%	115,346	9.9%	
	Total	372,619		279,238		249,570		93,580		125,498		27,154		11,668		10,270		817		1,170,421		

Notes:

1. Excludes other occupations within the hire and reward sector of T&L.
2. Includes 652 train operations inspectors, train examiners and other territories.

Source:

DEEWR, pers. comm.

TABLE C3.7: T&L WORKFORCE PARTICIPATION BY AGE, EDUCATIONAL QUALIFICATION AND JURISDICTION, 6 DIGIT LEVEL, 2006

Jurisdiction	Gender	Age	TOTAL - All Qualification Categories	Postgraduate Education	Bachelor Degree	Advanced Diploma and Diploma	Certificate III and IV	Certificate I and II	Certificate Level Not Defined	Year 12	Year 11	Year 10 Or Below	No Educational Attainment	Inadequately Described/ Not Stated	
NSW	Male	15 - 19	10,819	0	0	57	354	204	68	3,961	1,861	4,092	102	120	
		20 - 24	19,359	133	1,063	932	2,633	539	289	8,002	1,286	4,191	134	157	
		25 - 29	21,369	510	1,690	1,221	4,244	401	383	6,219	1,390	4,954	156	201	
		30 - 34	25,880	527	1,866	1,807	5,793	370	478	6,227	1,389	6,863	205	355	
		35 - 39	28,606	571	1,894	1,944	6,472	308	539	4,885	1,274	10,017	277	425	
		40 - 44	32,413	583	1,988	2,124	7,354	323	523	4,429	1,221	12,887	372	609	
		45 - 49	32,731	536	1,881	1,941	7,463	284	545	4,863	1,124	12,982	495	617	
		50 - 54	29,455	411	1,557	1,597	6,406	255	550	4,560	892	12,169	490	568	
		55 - 59	26,466	354	1,165	1,283	5,557	187	514	3,514	756	12,049	518	569	
		60 - 64	16,633	238	610	728	3,414	128	305	2,036	493	7,879	347	455	
		65 - 69	7,038	125	230	325	1,308	56	116	791	258	3,425	171	233	
		70 and over	5,328	83	232	267	702	21	58	641	187	2,766	141	230	
		Sub total		256,097	4,071	14,176	14,226	51,700	3,076	4,368	50,128	12,131	94,274	3,408	4,539
		Row %		100.0%	1.6%	5.5%	5.6%	20.2%	1.2%	1.7%	19.6%	4.7%	36.8%	1.3%	1.8%
		Female	15 - 19	3,043	0	9	35	139	112	28	1,093	518	1,042	37	30
			20 - 24	5,765	34	507	570	853	314	153	2,240	277	735	39	43
			25 - 29	6,619	184	1,000	791	973	259	234	1,857	267	923	62	69
	30 - 34		7,796	264	1,019	1,066	806	215	312	1,999	335	1,619	69	92	
	35 - 39		8,931	211	969	979	768	234	292	1,832	511	2,908	86	141	
	40 - 44		10,255	176	866	920	795	398	1,900	488	4,099	185	177	177	
	45 - 49		9,827	185	752	828	641	219	333	1,710	415	4,385	192	167	
	50 - 54		8,147	161	611	663	467	139	251	1,244	305	3,967	180	159	
	55 - 59		6,545	110	441	566	325	88	168	933	266	3,395	105	148	
	60 - 64		3,772	53	290	344	163	38	96	503	180	1,984	51	70	
	65 - 69		1,816	29	142	183	44	16	41	250	88	927	40	56	
	70 and over		1,777	32	117	113	43	9	37	275	97	945	39	70	
	Sub total			74,293	1,439	6,723	7,058	6,017	1,894	2,343	15,836	3,747	26,929	1,085	1,222
	Row %			100.0%	1.9%	9.0%	9.5%	8.1%	2.5%	3.2%	21.3%	5.0%	36.2%	1.5%	1.6%
	Total		15 - 19	13,862	0	9	92	493	316	96	5,054	2,379	5,134	139	150
			20 - 24	25,124	167	1,570	1,502	3,486	853	442	10,242	1,563	4,926	173	200
			25 - 29	27,988	694	2,690	2,012	5,217	660	617	8,076	1,657	5,877	218	270
		30 - 34	33,676	791	2,885	2,873	6,599	585	790	8,226	1,724	8,482	274	447	
		35 - 39	37,537	782	2,863	2,923	7,240	542	831	6,717	1,785	12,925	363	566	
40 - 44		42,668	759	2,854	3,044	8,149	574	921	6,329	1,709	16,986	557	786		
45 - 49		42,558	721	2,633	2,769	8,104	503	878	6,573	1,539	17,367	687	784		
50 - 54		37,602	572	2,168	2,260	6,873	394	801	5,804	1,197	16,136	670	727		
55 - 59		33,011	464	1,606	1,849	5,882	275	682	4,447	1,022	15,444	623	717		
60 - 64		20,405	291	900	1,072	3,577	166	401	2,539	673	9,863	398	525		
65 - 69		8,854	154	372	508	1,352	72	157	1,041	346	4,352	211	289		
70 and over		7,105	115	349	380	745	30	95	916	284	3,711	180	300		
Sub total			330,390.0	5,510.0	20,899.0	21,284.0	57,717.0	4,970.0	6,711.0	65,964.0	15,878.0	121,203.0	4,493.0	5,761.0	
Row %			100.0%	1.7%	6.3%	6.4%	17.5%	1.5%	2.0%	20.0%	4.8%	36.7%	1.4%	1.7%	
Not stated			42,229												
Total			372,619												

TABLE C3.7 cont: T&L WORKFORCE PARTICIPATION BY AGE, EDUCATIONAL QUALIFICATION AND JURISDICTION, 6 DIGIT LEVEL, 2006

Jurisdiction	Gender	Age	TOTAL - All Qualification Categories	Postgraduate Education	Bachelor Degree	Advanced Diploma and Diploma	Certificate III and IV	Certificate I and II	Certificate Level Not Defined	Year 12	Year 11	Year 10 Or Below	No Educational Attainment	Inadequately Described/ Not Stated		
Victoria	Male	15 - 19	8,983	4	8	37	366	111	45	3,177	1,921	3,094	89	131		
		20 - 24	14,694	197	1,070	1,061	1,745	319	211	6,438	1,281	2,163	81	128		
		25 - 29	16,084	561	1,573	1,089	2,717	327	246	4,727	1,706	2,867	108	163		
		30 - 34	19,355	383	1,510	1,363	3,987	216	282	5,123	2,334	3,763	174	220		
		35 - 39	22,058	392	1,395	1,329	4,949	155	280	4,101	3,365	5,532	211	349		
		40 - 44	24,474	409	1,205	1,388	5,358	161	324	3,439	3,967	7,497	304	422		
		45 - 49	24,199	405	1,254	1,472	5,075	159	309	3,465	3,385	7,820	381	474		
		50 - 54	21,785	300	1,010	1,340	4,106	162	302	3,350	2,894	7,538	365	418		
		55 - 59	19,269	263	764	1,096	3,514	80	280	2,547	2,060	7,897	320	448		
		60 - 64	12,489	131	389	638	2,181	44	135	1,432	1,074	5,999	229	337		
		65 - 69	5,460	72	197	302	882	14	55	519	390	2,765	92	172		
		70 and over	4,008	64	138	176	416	16	34	354	300	2,246	98	166		
		Sub total			192,858	3,181	10,513	11,291	35,296	1,764	2,503	38,672	24,677	59,081	2,452	3,428
		Row %			100.0%	1.6%	5.5%	5.9%	18.3%	0.9%	1.3%	20.1%	12.8%	30.6%	1.3%	1.8%
		Female	15 - 19	2,420	0	3	22	90	60	13	897	516	786	12	21	
			20 - 24	4,951	34	520	511	582	255	111	2,137	289	456	17	39	
			25 - 29	5,749	155	1,025	769	637	183	179	1,708	424	590	43	36	
	30 - 34		6,611	204	897	918	618	133	193	1,916	707	882	74	69		
	35 - 39		7,360	177	767	713	560	118	160	1,574	1,341	1,744	101	105		
	40 - 44		8,276	158	577	643	589	96	165	1,484	1,758	2,489	149	168		
	45 - 49		8,443	141	553	573	536	107	168	1,486	1,566	2,962	182	169		
	50 - 54		6,865	112	392	473	350	85	124	1,172	1,207	2,694	127	129		
	55 - 59		5,483	94	306	423	276	58	78	771	772	2,542	60	103		
	60 - 64		3,037	46	190	314	121	21	37	348	373	1,449	69	69		
	65 - 69		1,450	30	112	138	37	9	12	161	138	761	17	35		
	70 and over		1,354	26	87	100	26	9	183	154	672	41	56			
	Sub total				61,999	1,177	5,429	5,597	4,422	1,125	1,249	13,837	9,245	18,027	892	999
	Row %				100.0%	1.9%	8.8%	9.0%	7.1%	1.8%	2.0%	22.3%	14.9%	29.1%	1.4%	1.6%
	Total		15 - 19	11,403	4	11	59	456	171	58	4,074	2,437	3,880	101	152	
			20 - 24	19,645	231	1,590	1,572	2,327	574	322	8,575	1,570	2,619	98	167	
		25 - 29	21,833	716	2,598	1,858	3,354	510	425	6,435	2,130	3,457	151	199		
		30 - 34	25,966	587	2,407	2,281	4,605	349	475	7,039	3,041	4,645	248	289		
		35 - 39	29,418	569	2,162	2,042	5,509	273	440	5,675	4,706	7,276	312	454		
40 - 44		32,750	567	1,782	2,031	5,947	257	489	4,923	5,725	9,986	453	590			
45 - 49		32,642	546	1,807	2,045	5,611	266	477	4,951	4,951	10,782	563	643			
50 - 54		28,650	412	1,402	1,813	4,456	247	426	4,522	4,101	10,232	492	547			
55 - 59		24,752	357	1,070	1,519	3,790	138	358	3,318	2,832	10,439	380	551			
60 - 64		15,526	177	579	952	2,302	65	172	1,780	1,447	7,348	298	406			
65 - 69	6,910	102	309	440	919	23	67	680	528	3,526	109	207				
70 and over	5,362	90	225	276	442	16	43	537	454	2,918	139	222				
Sub total			254,857	4,358	15,942	16,888	39,718	2,889	3,752	52,509	33,922	77,108	3,344	4,427		
Row %			100.0%	1.7%	6.3%	6.6%	15.6%	1.1%	1.5%	20.6%	13.3%	30.3%	1.3%	1.7%		
Not stated			24,381													
Total			279,238													

TABLE C3.7 cont: T&L WORKFORCE PARTICIPATION BY AGE, EDUCATIONAL QUALIFICATION AND JURISDICTION, 6 DIGIT LEVEL, 2006

Jurisdiction	Gender	Age	TOTAL - All Qualification Categories	Postgraduate Education	Bachelor Degree	Advanced Diploma and Diploma	Certificate III and IV	Certificate I and II	Certificate Level Not Defined	Year 12	Year 11	Year 10 Or Below	No Educational Attainment	Inadequately Described/ Not Stated	
Queensland	Male	15 - 19	8,534	6	9	56	358	205	43	3,568	1,570	2,548	87	84	
		20 - 24	13,928	25	565	642	1,864	469	199	6,478	991	2,535	69	91	
		25 - 29	13,990	153	804	743	2,491	354	275	4,611	1,094	3,290	68	107	
		30 - 34	17,006	148	803	1,148	3,455	274	325	4,702	1,320	4,548	104	179	
		35 - 39	19,420	182	741	1,353	3,897	207	332	3,634	1,426	7,252	140	256	
		40 - 44	21,065	182	677	1,281	4,264	191	270	2,698	1,452	9,541	228	281	
		45 - 49	20,816	206	643	1,249	4,533	167	242	2,643	1,091	9,479	267	296	
		50 - 54	19,175	177	609	1,113	3,891	148	238	2,519	857	9,127	212	284	
		55 - 59	17,429	141	460	903	3,500	89	192	2,182	692	8,716	247	307	
		60 - 64	11,420	106	258	538	2,099	40	126	1,320	428	6,065	163	277	
		65 - 69	4,321	43	101	185	727	12	58	458	148	2,371	76	142	
		70 and over	2,967	22	74	89	310	0	21	311	83	1,859	93	105	
		Sub total		170,071	1,391	5,744	9,300	31,389	2,156	2,321	35,124	11,152	67,331	1,754	2,409
		Row %		100.0%	0.8%	3.4%	5.5%	18.5%	1.3%	1.4%	20.7%	6.6%	39.6%	1.0%	1.4%
		Female	15 - 19	2,771	0	3	41	150	129	33	1,136	459	767	18	35
	20 - 24		4,781	16	366	410	640	265	124	2,097	248	569	25	21	
	25 - 29		5,001	73	599	542	690	184	157	1,785	272	649	24	26	
	30 - 34		5,780	88	565	667	620	149	246	1,807	426	1,111	44	57	
	35 - 39		6,475	94	463	599	559	103	170	1,586	552	2,206	55	88	
	40 - 44		7,007	84	340	512	525	119	160	1,253	628	3,225	67	94	
	45 - 49		6,566	61	323	446	436	87	128	1,078	495	3,331	95	86	
	50 - 54		5,533	62	255	352	278	56	96	827	362	3,094	75	76	
	55 - 59		4,412	47	194	275	170	37	69	585	243	2,666	58	68	
	60 - 64		2,512	16	103	160	100	7	29	278	103	1,635	34	47	
	65 - 69		1,171	18	68	90	15	6	12	119	49	726	20	20	
	70 and over		878	10	34	57	26	0	6	92	49	540	23	41	
	Sub total			52,887	569	3,313	4,151	4,209	1,142	1,230	12,643	3,886	20,519	538	687
	Row %			100.0%	1.1%	6.3%	7.8%	8.0%	2.2%	2.3%	23.9%	7.3%	38.8%	1.0%	1.3%
	Total		15 - 19	11,305	6	12	97	508	334	76	4,704	2,029	3,315	105	119
		20 - 24	18,709	41	931	1,052	2,504	734	323	8,575	1,239	3,104	94	112	
		25 - 29	18,991	226	1,403	1,285	3,181	538	432	6,396	1,366	3,939	92	133	
		30 - 34	22,786	236	1,368	1,815	4,075	423	571	6,509	1,746	5,659	148	236	
		35 - 39	25,895	276	1,204	1,952	4,456	310	502	5,220	1,978	9,458	195	344	
40 - 44		28,072	266	1,017	1,793	4,789	310	430	3,951	2,080	12,766	295	375		
45 - 49		27,382	267	966	1,695	4,969	254	370	3,721	1,586	12,810	362	382		
50 - 54		24,708	239	864	1,465	4,169	204	334	3,346	1,219	12,221	287	360		
55 - 59		21,841	188	654	1,178	3,670	126	261	2,767	935	11,382	305	375		
60 - 64		13,932	122	361	698	2,199	47	155	1,598	531	7,700	197	324		
65 - 69		5,492	61	169	275	742	18	70	577	197	3,097	96	190		
70 and over		3,845	32	108	146	336	0	27	403	132	2,399	116	146		
Sub total			222,958	1,960	9,057	13,451	35,598	3,298	3,551	47,767	15,038	87,850	2,292	3,096	
Row %		100.0%	0.9%	4.1%	6.0%	16.0%	1.5%	1.6%	21.4%	6.7%	39.4%	1.0%	1.4%		
Not stated		26,612													
Total		249,570													

TABLE C3.7 cont: T&L WORKFORCE PARTICIPATION BY AGE, EDUCATIONAL QUALIFICATION AND JURISDICTION, 6 DIGIT LEVEL, 2006

Jurisdiction	Gender	Age	TOTAL - All Qualification Categories	Postgraduate Education	Bachelor Degree	Advanced Diploma and Diploma	Certificate III and IV	Certificate I and II	Certificate Level Not Defined	Year 12	Year 11	Year 10 Or Below	No Educational Attainment	Inadequately Described/ Not Stated		
SA	Male	15 - 19	4,080	0	0	6	147	68	23	1,414	1,015	1,305	47	55		
		20 - 24	5,900	40	361	183	785	198	84	2,293	925	957	29	45		
		25 - 29	5,514	80	393	228	957	142	124	1,512	968	1,014	35	61		
		30 - 34	6,323	82	335	333	1,274	87	147	1,697	1,169	1,090	61	48		
		35 - 39	7,559	66	319	352	1,490	69	121	1,429	1,699	1,855	62	97		
		40 - 44	8,441	89	239	415	1,534	74	152	1,159	1,976	2,560	119	124		
		45 - 49	8,316	64	223	423	1,499	68	142	1,200	1,812	2,641	125	119		
		50 - 54	7,414	44	206	383	1,326	56	131	985	1,472	2,587	116	108		
		55 - 59	6,543	53	180	319	1,162	57	91	735	888	2,874	88	96		
		60 - 64	4,103	23	83	185	665	22	58	401	393	2,144	50	79		
		65 - 69	1,597	19	37	85	225	0	15	139	156	880	16	25		
		70 and over	1,278	17	24	44	77	4	0	137	78	814	30	53		
		Sub total			67,068	577	2,400	2,956	11,141	845	1,088	13,101	12,551	20,721	778	910
		Row %			100.0%	0.9%	3.6%	4.4%	16.6%	1.3%	1.6%	19.5%	18.7%	30.9%	1.2%	1.4%
		Female	15 - 19	1,104	0	0	6	39	29	12	419	271	304	13	11	
			20 - 24	1,711	0	173	85	227	100	53	709	176	165	15	8	
			25 - 29	1,504	12	213	115	209	67	84	443	160	175	11	15	
	30 - 34		1,819	32	200	133	223	56	80	577	266	223	9	20		
	35 - 39		2,259	34	136	196	187	42	71	535	540	465	22	31		
	40 - 44		2,537	28	140	140	211	50	55	493	721	617	43	39		
	45 - 49		2,511	21	127	158	199	38	67	374	630	798	62	37		
	50 - 54		2,224	24	89	142	151	16	45	289	563	836	35	34		
	55 - 59		1,852	20	85	142	83	18	33	202	306	884	39	40		
	60 - 64		1,152	6	63	111	33	6	16	111	144	630	6	26		
	65 - 69		534	5	35	39	20	0	3	58	62	284	15	13		
	70 and over		450	0	23	24	15	0	3	42	39	271	11	22		
	Sub total				19,657	182	1,284	1,291	1,597	422	522	4,252	3,878	5,652	281	296
	Row %				100.0%	0.9%	6.5%	6.6%	8.1%	2.1%	2.7%	21.6%	19.7%	28.8%	1.4%	1.5%
	Total		15 - 19	5,184	0	0	12	186	97	35	1,833	1,286	1,609	60	66	
			20 - 24	7,611	40	534	268	1,012	298	137	3,002	1,101	1,122	44	53	
		25 - 29	7,018	92	606	343	1,166	209	208	1,955	1,128	1,189	46	76		
		30 - 34	8,142	114	535	466	1,497	143	227	2,274	1,435	1,313	70	68		
		35 - 39	9,818	100	455	548	1,677	111	192	1,964	2,239	2,320	84	128		
40 - 44		10,978	117	379	555	1,745	124	207	1,652	2,697	3,177	162	163			
45 - 49		10,827	85	350	581	1,698	106	209	1,574	2,442	3,439	187	156			
50 - 54		9,638	68	295	525	1,477	72	176	1,274	2,035	3,423	151	142			
55 - 59		8,395	73	265	461	1,245	75	124	937	1,194	3,758	127	136			
60 - 64		5,255	29	146	296	698	28	74	512	537	2,774	56	105			
65 - 69		2,131	24	72	124	245	0	18	197	218	1,164	31	38			
70 and over		1,728	17	47	68	92	4	3	179	117	1,085	41	75			
Sub total				86,725	759	3,684	4,247	12,738	1,267	1,610	17,353	16,429	26,373	1,059	1,206	
Row %				100.0%	0.9%	4.2%	4.9%	14.7%	1.5%	1.9%	20.0%	18.9%	30.4%	1.2%	1.4%	
Not stated				6,855												
Total				93,580												

TABLE C3.7 cont: T&L WORKFORCE PARTICIPATION BY AGE, EDUCATIONAL QUALIFICATION AND JURISDICTION, 6 DIGIT LEVEL, 2006

Jurisdiction	Gender	Age	TOTAL - All Qualification Categories	Postgraduate Education	Bachelor Degree	Advanced Diploma and Diploma	Certificate III and IV	Certificate I and II	Certificate Level Not Defined	Year 12	Year 11	Year 10 Or Below	No Educational Attainment	Inadequately Described/ Not Stated	
WA	Male	15 - 19	5,053	0	3	55	206	107	32	2,298	979	1,271	54	48	
		20 - 24	7,909	22	436	395	973	230	131	3,451	810	1,345	58	58	
		25 - 29	7,607	66	646	433	1,343	155	136	2,268	861	1,556	52	91	
		30 - 34	8,637	73	532	525	1,740	132	163	2,309	914	2,090	63	96	
		35 - 39	10,216	121	487	545	2,053	101	161	2,053	1,089	3,401	85	120	
		40 - 44	10,843	106	388	594	2,389	91	135	1,783	991	4,115	109	142	
		45 - 49	10,736	118	419	643	2,375	78	151	1,929	806	3,882	150	185	
		50 - 54	9,765	106	341	564	2,084	95	130	1,721	615	3,837	126	146	
		55 - 59	8,769	87	297	474	1,756	53	101	1,353	524	3,808	126	190	
		60 - 64	5,412	45	141	302	952	37	60	828	316	2,486	108	137	
		65 - 69	2,218	23	54	138	379	6	30	291	100	1,093	38	66	
		70 and over	1,465	6	41	76	136	3	12	214	66	807	37	67	
		Sub total	88,630	773	3,785	4,744	16,386	1,088	1,242	20,498	8,071	29,691	1,006	1,346	
		Row %	100.0%	0.9%	4.3%	5.4%	18.5%	1.2%	1.4%	23.1%	9.1%	33.5%	1.1%	1.5%	
		Female	15 - 19	1,677	0	0	15	109	52	20	694	323	422	18	24
			20 - 24	2,511	16	203	184	385	138	65	985	216	291	21	7
			25 - 29	2,507	26	288	217	401	64	132	708	252	387	10	22
	30 - 34		2,739	37	295	282	283	61	130	732	262	608	18	31	
	35 - 39		3,216	54	266	315	272	54	119	660	438	947	39	52	
	40 - 44		3,538	48	226	326	242	53	129	674	541	1,218	42	39	
	45 - 49		3,404	50	187	315	239	44	100	595	464	1,309	47	54	
	50 - 54		2,990	30	160	258	154	40	69	493	302	1,387	46	51	
	55 - 59		2,278	31	119	195	98	23	55	385	185	1,113	38	36	
	60 - 64		1,208	9	89	121	45	3	3	193	100	598	21	26	
	65 - 69		585	16	52	62	17	3	12	80	27	298	0	18	
	70 and over		447	0	34	25	3	3	6	58	24	269	6	19	
	Sub total		27,100	317	1,919	2,315	2,248	538	840	6,257	3,134	8,847	306	379	
	Row %		100.0%	1.2%	7.1%	8.5%	8.3%	2.0%	3.1%	23.1%	11.6%	32.6%	1.1%	1.4%	
	Total		15 - 19	6,730	0	3	70	315	159	52	2,992	1,302	1,693	72	72
			20 - 24	10,420	38	639	579	1,358	368	196	4,436	1,026	1,636	79	65
		25 - 29	10,114	92	934	650	1,744	219	268	2,976	1,113	1,943	62	113	
		30 - 34	11,376	110	827	807	2,023	193	293	3,041	1,176	2,698	81	127	
		35 - 39	13,432	175	753	860	2,325	155	280	2,713	1,527	4,348	124	172	
40 - 44		14,381	154	614	920	2,631	144	264	2,457	1,532	5,333	151	181		
45 - 49		14,140	168	606	958	2,614	122	251	2,524	1,270	5,191	197	239		
50 - 54		12,755	136	501	822	2,238	135	199	2,214	917	5,224	172	197		
55 - 59		11,047	118	416	669	1,854	76	156	1,738	709	4,921	164	226		
60 - 64		6,620	54	230	423	997	40	63	1,021	416	3,084	129	163		
65 - 69		2,803	39	106	200	396	9	42	371	127	1,391	38	84		
70 and over		1,912	6	75	101	139	6	18	272	90	1,076	43	86		
Sub total		115,730	1,090	5,704	7,059	18,634	1,626	2,082	26,755	11,205	38,538	1,312	1,725		
Row %		100.0%	0.9%	4.9%	6.1%	16.1%	1.4%	1.8%	23.1%	9.7%	33.3%	1.1%	1.5%		
Not stated				9,768											
Total				125,498											

TABLE C3.7 cont: T&L WORKFORCE PARTICIPATION BY AGE, EDUCATIONAL QUALIFICATION AND JURISDICTION, 6 DIGIT LEVEL, 2006

Jurisdiction	Gender	Age	TOTAL - All Qualification Categories	Postgraduate Education	Bachelor Degree	Advanced Diploma and Diploma	Certificate III and IV	Certificate I and II	Certificate Level Not Defined	Year 12	Year 11	Year 10 Or Below	No Educational Attainment	Inadequately Described/ Not Stated	
TAS	Male	15 - 19	891	0	0	0	35	20	6	214	183	411	12	10	
		20 - 24	1,440	0	58	29	220	77	33	482	144	370	16	11	
		25 - 29	1,500	9	73	76	281	44	27	324	159	477	3	27	
		30 - 34	1,785	3	87	93	417	13	26	283	187	645	9	22	
		35 - 39	2,188	12	84	101	531	12	24	188	87	1,097	12	40	
		40 - 44	2,500	6	66	124	543	12	22	162	73	1,432	18	42	
		45 - 49	2,442	22	42	126	575	9	29	171	91	1,314	24	39	
		50 - 54	2,276	22	69	136	412	9	31	207	80	1,231	34	45	
		55 - 59	2,004	18	42	112	357	12	36	145	32	1,167	15	68	
		60 - 64	1,267	14	30	55	202	3	11	83	36	784	17	32	
		65 - 69	515	6	14	29	69	0	10	41	10	309	12	15	
		70 and over	403	6	19	14	42	0	0	46	13	225	18	20	
		Sub total		19,211	118	584	895	3,684	211	255	2,346	1,095	9,462	190	371
		Row %		100.0%	0.6%	3.0%	4.7%	19.2%	1.1%	1.3%	12.2%	5.7%	49.3%	1.0%	1.9%
		Female	15 - 19	297	0	0	0	11	12	3	59	69	140	3	0
	20 - 24		469	0	32	22	74	25	15	178	58	65	0	0	
	25 - 29		421	7	28	15	71	17	19	98	54	112	0	0	
	30 - 34		496	6	46	30	41	16	19	106	48	174	0	10	
	35 - 39		665	9	18	44	61	20	18	80	56	342	6	11	
	40 - 44		747	0	31	31	81	25	32	60	59	411	3	14	
	45 - 49		755	7	37	20	76	9	16	106	59	406	3	16	
	50 - 54		583	10	28	36	58	0	6	66	23	343	3	10	
	55 - 59		494	12	32	41	22	3	3	25	28	312	0	16	
	60 - 64		280	3	14	37	15	0	6	22	6	164	3	10	
	65 - 69		156	6	14	19	3	0	3	16	3	89	3	0	
	70 and over		111	0	6	12	0	3	0	15	7	56	3	9	
	Sub total			5,474	60	286	307	513	130	140	831	470	2,614	27	96
	Row %			100.0%	1.1%	5.2%	5.6%	9.4%	2.4%	2.6%	15.2%	8.6%	47.8%	0.5%	1.8%
	Total		15 - 19	1,188	0	0	0	46	32	9	273	252	551	15	10
			20 - 24	1,909	0	90	51	294	102	48	660	202	435	16	11
			25 - 29	1,921	16	101	91	352	61	46	422	213	589	3	27
			30 - 34	2,281	9	133	123	458	29	45	389	235	819	9	32
		35 - 39	2,853	21	102	145	592	32	42	268	143	1,439	18	51	
40 - 44		3,247	6	97	155	624	37	54	222	132	1,843	21	56		
45 - 49		3,197	29	79	146	651	18	45	277	150	1,720	27	55		
50 - 54		2,859	32	97	172	470	9	37	273	103	1,574	37	55		
55 - 59		2,498	30	74	153	379	15	39	170	60	1,479	15	84		
60 - 64		1,547	17	44	92	217	3	17	105	42	948	20	42		
65 - 69	671	12	28	48	72	0	13	57	13	398	15	15			
70 and over	514	6	25	26	42	3	0	61	20	281	21	29			
Sub total		24,685	178	870	1,202	4,197	341	395	3,177	1,565	12,076	217	467		
Row %		100.0%	0.7%	3.5%	4.9%	17.0%	1.4%	1.6%	12.9%	6.3%	48.9%	0.9%	1.9%		
Not stated		2,469													
Total		27,154													

TABLE C3.7 cont: T&L WORKFORCE PARTICIPATION BY AGE, EDUCATIONAL QUALIFICATION AND JURISDICTION, 6 DIGIT LEVEL, 2006

Jurisdiction	Gender	Age	TOTAL - All Qualification Categories	Postgraduate Education	Bachelor Degree	Advanced Diploma and Diploma	Certificate III and IV	Certificate I and II	Certificate Level Not Defined	Year 12	Year 11	Year 10 Or Below	No Educational Attainment	Inadequately Described/ Not Stated	
NT	Male	15 - 19	478	0	0	0	20	11	3	111	93	223	14	3	
		20 - 24	1,000	0	36	56	149	42	9	304	101	282	12	9	
		25 - 29	930	6	94	73	192	18	10	206	79	229	18	5	
		30 - 34	1,055	12	46	89	246	32	15	228	96	276	9	6	
		35 - 39	1,043	10	45	90	243	8	17	151	132	305	27	15	
		40 - 44	922	13	22	78	226	18	12	59	102	349	21	22	
		45 - 49	894	4	16	62	209	16	4	116	115	331	12	9	
		50 - 54	733	6	10	71	177	6	7	94	55	263	23	21	
		55 - 59	579	7	19	33	129	0	3	69	32	263	18	6	
		60 - 64	386	3	18	18	94	6	0	53	18	151	10	15	
		65 - 69	148	4	6	18	34	0	0	12	3	62	3	6	
		70 and over	58	0	4	3	13	0	0	4	3	19	6	6	
		Sub total	8,226	65	316	591	1,732	157	80	1,407	829	2,753	173	123	
		Row %	100.0%	0.8%	3.8%	7.2%	21.1%	1.9%	1.0%	17.1%	10.1%	33.5%	2.1%	1.5%	
		Female	15 - 19	140	0	0	0	18	9	6	33	19	49	3	3
			20 - 24	311	0	22	14	66	39	17	74	25	51	0	3
			25 - 29	351	3	51	34	49	13	16	104	25	48	4	4
			30 - 34	329	3	35	32	66	3	15	74	29	69	3	0
	35 - 39		299	0	18	36	38	0	6	65	46	84	3	3	
	40 - 44		209	3	3	15	22	3	12	25	28	92	3	3	
	45 - 49		229	6	17	12	13	3	3	30	43	95	3	4	
	50 - 54		174	0	12	8	15	0	3	30	15	80	8	6	
	55 - 59		137	4	0	15	3	0	6	29	7	67	0	6	
	60 - 64		86	0	6	9	4	0	0	18	6	40	0	3	
	65 - 69		19	0	0	0	0	0	0	7	3	9	0	0	
	70 and over		6	0	0	3	0	0	0	0	0	0	0	3	
	Sub total		2,290	19	164	178	294	70	81	489	246	684	27	38	
	Row %		100.0%	0.8%	7.2%	7.8%	12.8%	3.1%	3.5%	21.4%	10.7%	29.9%	1.2%	1.7%	
	Total		15 - 19	618	0	0	0	38	20	9	144	112	272	17	6
			20 - 24	1,311	0	58	70	215	81	26	378	126	333	12	12
			25 - 29	1,281	9	145	107	241	31	26	310	104	277	22	9
			30 - 34	1,384	15	81	121	312	35	30	302	125	345	12	6
		35 - 39	1,342	10	63	126	281	8	23	216	178	389	30	18	
		40 - 44	1,131	16	25	93	248	21	24	84	130	441	24	25	
		45 - 49	1,123	10	33	74	222	19	7	146	158	426	15	13	
		50 - 54	907	6	22	79	192	6	7	124	70	343	31	27	
55 - 59		716	11	19	48	132	0	9	98	39	330	18	12		
60 - 64		472	3	24	27	98	6	0	71	24	191	10	18		
65 - 69		167	4	6	18	34	0	0	19	6	71	3	6		
70 and over		64	0	4	6	13	0	0	4	3	19	6	9		
Sub total		10,516	84	480	769	2,026	227	161	1,896	1,075	3,437	200	161		
Row %		100.0%	0.8%	4.6%	7.3%	19.3%	2.2%	1.5%	18.0%	10.2%	32.7%	1.9%	1.5%		
Not stated				1,152											
Total				11,668											

TABLE C3.7 cont: T&L WORKFORCE PARTICIPATION BY AGE, EDUCATIONAL QUALIFICATION AND JURISDICTION, 6 DIGIT LEVEL, 2006

Jurisdiction	Gender	Age	TOTAL - All Qualification Categories	Postgraduate Education	Bachelor Degree	Advanced Diploma and Diploma	Certificate III and IV	Certificate I and II	Certificate Level Not Defined	Year 12	Year 11	Year 10 Or Below	No Educational Attainment	Inadequately Described/ Not Stated	
ACT	Male	15 - 19	583	0	0	6	10	3	9	213	134	204	4	0	
		20 - 24	754	0	55	39	71	31	12	435	33	78	0	0	
		25 - 29	645	39	50	37	97	15	6	256	27	106	6	6	
		30 - 34	634	31	54	53	116	4	9	195	22	144	3	3	
		35 - 39	730	26	73	53	150	3	16	177	23	195	3	11	
		40 - 44	837	56	37	59	177	5	9	171	35	278	0	10	
		45 - 49	734	39	70	54	186	0	7	123	33	210	12	0	
		50 - 54	760	46	60	61	134	6	21	147	33	236	0	16	
		55 - 59	719	40	53	52	151	9	15	126	29	235	3	6	
		60 - 64	417	17	27	34	62	0	3	90	9	145	16	14	
		65 - 69	125	7	10	6	37	0	3	20	3	42	0	0	
		70 and over	82	0	6	6	27	3	6	15	0	19	0	0	
		Sub total	7,020	301	495	460	1,218	79	113	1,968	381	1,892	47	66	
		Row %	100.0%	4.3%	7.1%	6.6%	17.4%	1.1%	1.6%	28.0%	5.4%	27.0%	0.7%	0.9%	
		Female	15 - 19	142	0	0	0	15	3	3	46	21	54	0	0
			20 - 24	264	3	43	20	34	5	3	128	10	18	0	0
			25 - 29	251	10	65	33	46	7	11	66	0	9	4	0
	30 - 34		260	8	55	28	33	13	0	85	9	29	0	0	
	35 - 39		257	21	39	34	22	5	6	74	8	45	3	0	
	40 - 44		254	15	35	17	27	3	9	73	11	58	3	3	
	45 - 49		232	11	13	24	15	0	6	59	4	94	0	6	
	50 - 54		192	10	22	9	6	6	12	46	13	65	0	3	
	55 - 59		121	7	6	3	7	0	6	38	0	54	0	0	
	60 - 64		67	3	9	7	3	3	3	10	0	26	0	3	
	65 - 69		6	0	3	0	0	0	0	0	0	3	0	0	
	70 and over		13	0	0	3	0	0	3	0	0	7	0	0	
	Sub total		2,059	88	290	178	208	45	62	625	76	462	10	15	
	Row %		100.0%	4.3%	14.1%	8.6%	10.1%	2.2%	3.0%	30.4%	3.7%	22.4%	0.5%	0.7%	
	Total		15 - 19	725	0	0	6	25	6	12	259	155	258	4	0
			20 - 24	1,018	3	98	59	105	36	15	563	43	96	0	0
		25 - 29	896	49	115	70	143	22	17	322	27	115	10	6	
		30 - 34	894	39	109	81	149	17	9	280	31	173	3	3	
		35 - 39	987	47	112	87	172	8	22	251	31	240	6	11	
40 - 44		1,091	71	72	76	204	8	18	244	46	336	3	13		
45 - 49		966	50	83	78	201	0	13	182	37	304	12	6		
50 - 54		952	56	82	70	140	12	33	193	46	301	0	19		
55 - 59		840	47	59	55	158	9	21	164	29	289	3	6		
60 - 64		484	20	36	41	65	3	6	100	9	171	16	17		
65 - 69	131	7	13	6	37	0	0	20	3	45	0	0			
70 and over	95	0	6	9	27	3	9	15	0	26	0	0			
Sub total	9,079	389	785	638	1,426	124	175	2,593	457	2,354	57	81			
Row %	100.0%	4.3%	8.6%	7.0%	15.7%	1.4%	1.9%	28.6%	5.0%	25.9%	0.6%	0.9%			
Not stated															
Total			1,191												
			10,270												

TABLE C3.7 cont: T&L WORKFORCE PARTICIPATION BY AGE, EDUCATIONAL QUALIFICATION AND JURISDICTION, 6 DIGIT LEVEL, 2006

Jurisdiction	Gender	Age	TOTAL - All Qualification Categories	Postgraduate Education	Bachelor Degree	Advanced Diploma and Diploma	Certificate III and IV	Certificate I and II	Certificate Level Not Defined	Year 12	Year 11	Year 10 Or Below	No Educational Attainment	Inadequately Described/ Not Stated	
Other	Male	15 - 19	0	0	0	0	0	0	0	0	0	0	0	0	
		20 - 24	21	0	0	3	5	0	3	10	0	0	0	0	
		25 - 29	3	0	0	3	0	0	0	0	0	0	0	0	
		30 - 34	9	0	0	3	0	0	0	3	0	3	0	0	
		35 - 39	13	0	0	3	0	0	0	3	0	7	0	0	
		40 - 44	15	0	0	0	4	0	0	0	0	0	11	0	
		45 - 49	12	0	0	0	0	3	0	3	0	6	0	0	
		50 - 54	10	0	0	0	3	0	0	3	0	4	0	0	
		55 - 59	25	0	0	0	0	0	0	3	0	19	3	0	
		60 - 64	6	0	0	0	0	0	0	0	0	3	0	3	
		65 - 69	3	0	0	0	0	0	0	0	0	3	0	0	
		70 and over	0	0	0	0	0	0	0	0	0	0	0	0	
		Sub total	117	0	12	12	3	25	56	3	21.4%	0.0%	47.9%	2.6%	2.6%
		Row %	100.0%	0.0%	0.0%	10.3%	10.3%	2.6%	2.6%	21.4%	0.0%	47.9%	2.6%	2.6%	
	Female	15 - 19	3	0	0	0	0	0	0	3	0	0	0	0	
		20 - 24	3	0	0	0	3	0	0	0	0	0	0	0	
		25 - 29	3	0	0	0	0	0	0	0	0	3	0	0	
		30 - 34	3	0	3	0	0	0	0	0	0	0	0	0	
		35 - 39	0	0	0	0	0	0	0	0	0	0	0	0	
		40 - 44	3	0	0	0	0	0	0	3	0	0	0	0	
		45 - 49	0	0	0	0	0	0	0	0	0	0	0	0	
		50 - 54	3	0	0	0	3	0	0	0	0	0	0	0	
		55 - 59	0	0	0	0	0	0	0	0	0	0	0	0	
		60 - 64	0	0	0	0	0	0	0	0	0	0	0	0	
		65 - 69	0	0	0	0	0	0	0	0	0	0	0	0	
		70 and over	0	0	0	0	0	0	0	0	0	0	0	0	
		Sub total	18	0	3	0	6	0	0	6	33.3%	0.0%	16.7%	0.0%	0.0%
Row %	100.0%	0.0%	16.7%	0.0%	33.3%	0.0%	0.0%	33.3%	0.0%	16.7%	0.0%	0.0%			
Total	15 - 19	3	0	0	0	0	0	0	3	0	0	0	0		
	20 - 24	24	0	0	3	8	0	3	10	0	0	0	0		
	25 - 29	6	0	0	3	0	0	0	0	0	3	0	0		
	30 - 34	12	0	3	3	0	0	0	3	0	3	0	0		
	35 - 39	13	0	0	3	0	0	0	3	0	7	0	0		
	40 - 44	18	0	0	0	4	0	0	3	0	11	0	0		
	45 - 49	12	0	0	0	0	3	0	3	0	6	0	0		
	50 - 54	13	0	0	0	6	0	0	3	0	4	0	0		
	55 - 59	25	0	0	0	0	0	0	3	0	19	3	0		
	60 - 64	6	0	0	0	0	0	0	0	0	3	0	3		
	65 - 69	3	0	0	0	0	0	0	0	0	3	0	0		
	70 and over	0	0	0	0	0	0	0	0	0	0	0	0		
	Sub total	135	0	3	12	18	3	3	31	23.0%	0.0%	43.7%	2.2%	2.2%	
Row %	100.0%	0.0%	2.2%	8.9%	13.3%	2.2%	2.2%	23.0%	0.0%	43.7%	2.2%	2.2%			
Not stated	689														
Total	824														

TABLE C3.7 cont: T&L WORKFORCE PARTICIPATION BY AGE, EDUCATIONAL QUALIFICATION AND JURISDICTION, 6 DIGIT LEVEL, 2006

Jurisdiction	Gender	Age	TOTAL - All Qualification Categories	Postgraduate Education	Bachelor Degree	Advanced Diploma and Diploma	Certificate III and IV	Certificate I and II	Certificate Level Not Defined	Year 12	Year 11	Year 10 Or Below	No Educational Attainment	Inadequately Described/ Not Stated	
Australia	Male	15 - 19	39,421	10	20	217	1,496	729	229	14,956	7,756	13,148	409	451	
		20 - 24	65,005	417	3,644	3,340	8,445	1,905	971	27,893	5,571	11,921	399	499	
		25 - 29	67,642	1,424	5,323	3,903	12,322	1,456	1,207	20,123	6,284	14,493	446	661	
		30 - 34	80,684	1,259	5,233	5,414	17,028	1,128	1,445	20,767	7,431	19,422	628	929	
		35 - 39	91,833	1,380	5,038	5,770	19,785	863	1,490	16,621	9,095	29,661	817	1,313	
		40 - 44	101,510	1,444	4,622	6,063	21,849	875	1,447	13,900	9,817	38,670	1,171	1,652	
		45 - 49	100,880	1,394	4,548	5,970	21,915	784	1,429	14,513	8,457	38,665	1,466	1,739	
		50 - 54	91,373	1,112	3,862	5,265	18,539	737	1,410	13,586	6,898	36,992	1,366	1,606	
		55 - 59	81,803	963	2,980	4,272	16,126	487	1,232	10,674	5,013	37,028	1,338	1,690	
		60 - 64	52,133	577	1,556	2,498	9,669	280	698	6,243	2,767	25,556	940	1,349	
		65 - 69	21,425	299	649	1,088	3,661	88	284	2,271	1,068	10,950	408	659	
		70 and over	15,589	198	538	675	1,723	47	131	1,722	730	8,755	423	647	
		Sub total	809,298	10,477	38,013	44,475	152,558	9,379	11,973	163,269	70,887	285,261	9,811	13,195	
		Row %	100.0%	1.3%	4.7%	5.5%	18.9%	1.2%	1.5%	20.2%	8.8%	35.2%	1.2%	1.6%	
		Female	15 - 19	11,597	0	15	119	571	406	118	4,380	2,196	3,564	104	124
	20 - 24		20,766	103	1,866	1,816	2,864	1,141	541	8,548	1,299	2,350	117	121	
	25 - 29		22,406	470	3,269	2,516	3,076	794	832	6,769	1,454	2,896	158	172	
	30 - 34		25,833	642	3,115	3,156	2,690	646	995	7,296	2,082	4,715	217	279	
	35 - 39		29,462	600	2,676	2,916	2,467	576	842	6,406	3,492	8,741	315	431	
	40 - 44		32,826	512	2,218	2,604	2,492	600	960	5,965	4,234	12,209	495	537	
	45 - 49		31,967	482	2,009	2,376	2,155	507	821	5,438	3,676	13,380	584	539	
	50 - 54		26,711	409	1,569	1,941	1,482	342	603	4,167	2,790	12,466	474	468	
	55 - 59		21,322	325	1,183	1,660	984	227	418	2,968	1,807	11,033	300	417	
	60 - 64		12,114	136	764	1,103	484	78	190	1,483	912	6,526	184	254	
	65 - 69		5,737	104	426	531	136	34	83	691	370	3,097	95	170	
	70 and over		5,036	68	301	337	113	15	64	665	370	2,760	123	220	
	Sub total		245,777	3,851	19,411	21,075	19,514	5,366	6,467	54,776	24,682	83,737	3,166	3,732	
	Row %		100.0%	1.6%	7.9%	8.6%	7.9%	2.2%	2.6%	22.3%	10.0%	34.1%	1.3%	1.5%	
	Total		15 - 19	51,018	10	35	336	2,067	1,135	347	19,336	9,952	16,712	513	575
			20 - 24	85,771	520	5,510	5,156	11,309	3,046	1,512	36,441	6,870	14,271	516	620
			25 - 29	90,048	1,894	8,592	6,419	15,398	2,250	2,039	26,892	7,738	17,389	604	833
			30 - 34	106,517	1,901	8,348	8,570	19,718	1,774	2,440	28,063	9,513	24,137	845	1,208
		35 - 39	121,295	1,980	7,714	8,686	22,252	1,439	2,332	23,027	12,587	38,402	1,132	1,744	
40 - 44		134,336	1,956	6,840	8,667	24,341	1,475	2,407	19,865	14,051	50,879	1,666	2,189		
45 - 49		132,847	1,876	6,557	8,346	24,070	1,291	2,250	19,951	12,133	52,045	2,050	2,278		
50 - 54		118,084	1,521	5,431	7,206	20,021	1,079	2,013	17,753	9,688	49,458	1,840	2,074		
55 - 59		103,125	1,288	4,163	5,932	17,110	714	1,650	13,642	6,820	48,061	1,638	2,107		
60 - 64		64,247	713	2,320	3,601	10,153	358	888	7,726	3,679	32,082	1,124	1,603		
65 - 69	27,162	403	1,075	1,619	3,797	122	367	2,962	1,438	14,047	503	629			
70 and over	20,625	266	839	1,012	1,836	62	195	2,387	1,100	11,515	546	867			
Sub total	1,055,075	14,328	57,424	65,550	172,072	14,745	18,440	218,045	95,569	368,998	12,977	16,927			
Row %	100.0%	1.4%	5.4%	6.2%	16.3%	1.4%	1.7%	20.7%	9.1%	35.0%	1.2%	1.6%			
Not stated			115,346												
Total			1,170,421												

Source:
DEEWR (2008), pers. comm.

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Glossary Of Terms

ABS	Australian Bureau of Statistics
ACG	Apelbaum Consulting Group
ACT	Australian Capital Territory
ALC	Australian Logistics Council
ANZSCO	Australian and New Zealand Standard Classification of Occupations
ANZSIC	Australian and New Zealand Standard Industrial Classification
ASCO	Australian Classification of Occupations
ATA	Australian Trucking Association
BTE	Bureau of Transport Economics
CPH	Census of Population and Housing
DEEWR	Department of Education, Employment and Workforce Relations
DOTARS	Department of Transport and Regional Services
F/T	Full Time
FTE	Full Time Equivalent
GDP	Gross Domestic Product
GST	Goods and Services Tax
H&R	Hire and Reward
LF	Labour Force
n.e.c.	not elsewhere classified
NSW	New South Wales
P/T	Part Time
T&L	Transport and Logistics
T&S	Transport and Storage
WA	Western Australia