

## 8. Education & Training



### Overview

This sector provides education and development services to children, young people and adults both directly through government schools and indirectly through the regulation and funding of early childhood services, non-government schools and training programs. The Department of Education and Training is committed to ensuring Australians have the education and skills they need to contribute to the economic and social development of Australia. The sector delivers world-class education and training services for people at every stage of their personal and professional development. They are also committed to ensuring their education and training systems are aligned to the country's employment, skills and economic priorities.

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### Sector information

Education and Training sector employs over 126,000 people nationally and contributes 1 per cent of the nation's gross domestic product. The economic contribution of international students to the Australian economy is about \$12.6 billion and their families of \$14.1 billion annually. The education sector is the nation's third biggest export earner behind coal and iron ore, outperforming travel, services (professional, business and technical), as well as exports of gold, crude petroleum and aluminium. The rapid growth of education and training sector over the previous decade has delivered significant economic benefits and employment opportunities. Over the year 2014 there has been more than 30000 job opportunities within this sector in Victoria only.

#### Education & Training subsectors:

1. Elementary and Secondary Schools
2. Colleges, Universities and Professional Schools
3. Apprenticeship training
5. Computer training
6. Educational support services

\*Indicates that potential employment opportunities exist in the sub sector for automotive engineers transitioning

### High level skill mapping

Education and Training Sub sectors	Elementary and Secondary Schools	Colleges, Universities & Professional Schools	Apprenticeship training	Computer Training	Educational Support Services
<b>Roles and Skills</b>					
Mechanical Engineer		X	X		X
Electrical Engineer		X	X	X	
Teachers	X	X	X	X	X
Software Engineer		X	X	X	X
Control Systems Engineer		X	X	X	X
Data Analysis	X	X	X	X	X
Problem Solving	X	X	X	X	X
Research & Development	X	X	X	X	X
Design and Development	X	X	X	X	X
CAD and 3D modeling		X	X	X	X
CAE (Simulation and Analysis)		X	X	X	X
Product Development		X	X	X	X
Product Engineering		X	X	X	X
Production Engineering		X	X	X	
Testing	X	X	X	X	X
Validation Engineering		X		X	
Vendor Management		X	X	X	X
Quality Engineering		X	X	X	X
Project Management	X	X	X	X	X
Technical Sales Engineering		X	X	X	X
Maintenance		X	X	X	X
Business Development	X	X	X	X	X
Business Management	X	X	X	X	X
Strategic Planning	X	X	X	X	X
Leading Teams	X	X	X	X	X

### Potential Opportunities and Synergy

Subsector	Potential opportunity Areas	Job Synergy
Elementary and Secondary Schools	Teachers, project managers, data analysts, software engineers	Increasing demand in teaching and computer programming
Colleges, Universities and Professional Schools	Mechanical and control systems engineers, project managers	Teaching various engineering subjects, operations engineering, project management and asset management
Apprenticeship training	Mechanical and control systems engineers, project managers, data analysts, trainer	High demand in running sessions and short courses and workshops for the new apprentice students.
Computer Training	Teacher, programmer	Teaching computer skills and new software
Education Support Services	Engineers, teachers, project managers	Providing additional support and services