

Advanced Skills for Advanced Manufacturing:

Rebuilding Vocational Training in a Transforming Industry

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June 2018

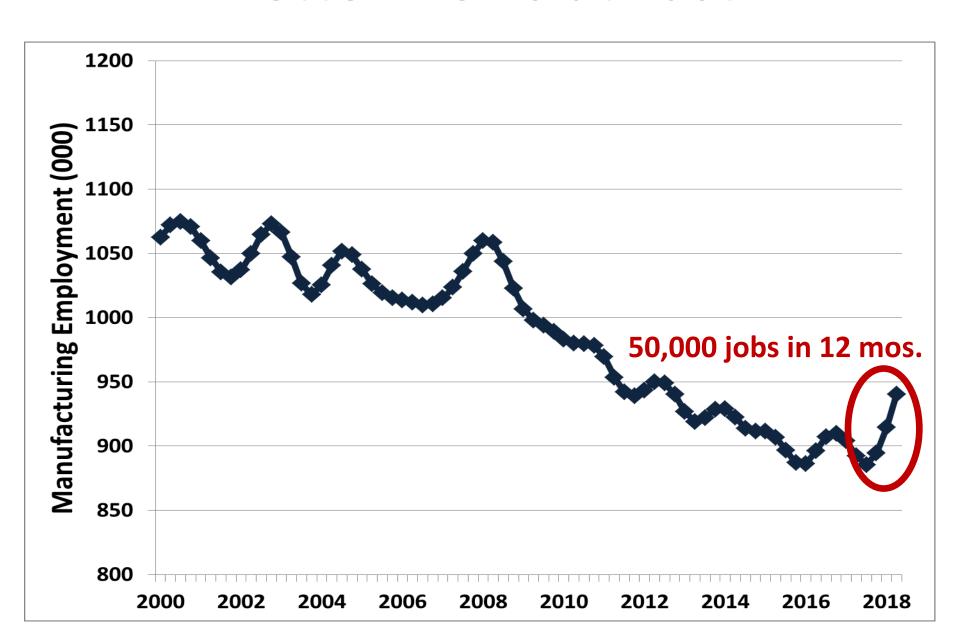


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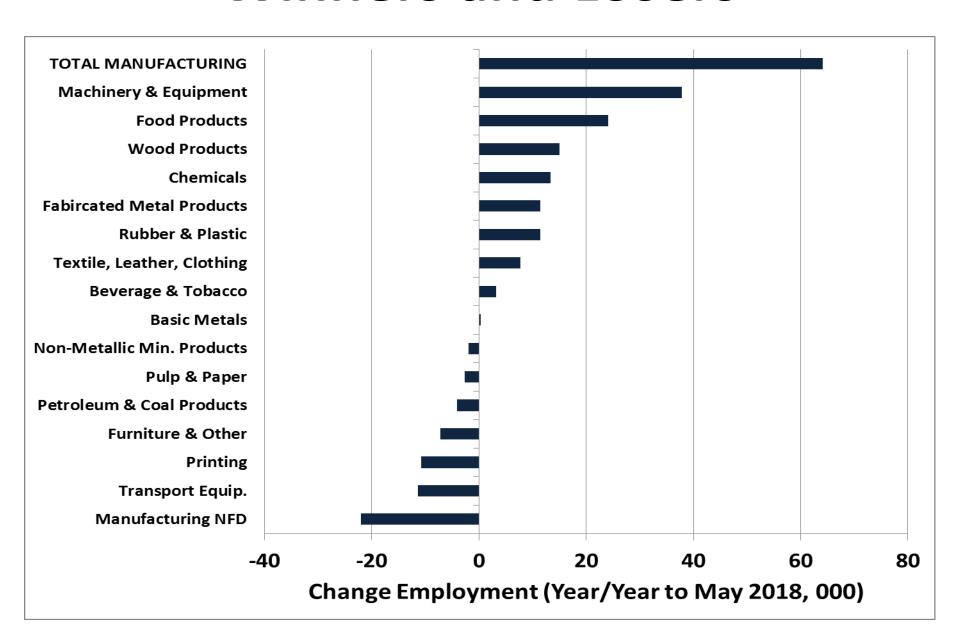
Better News at Last



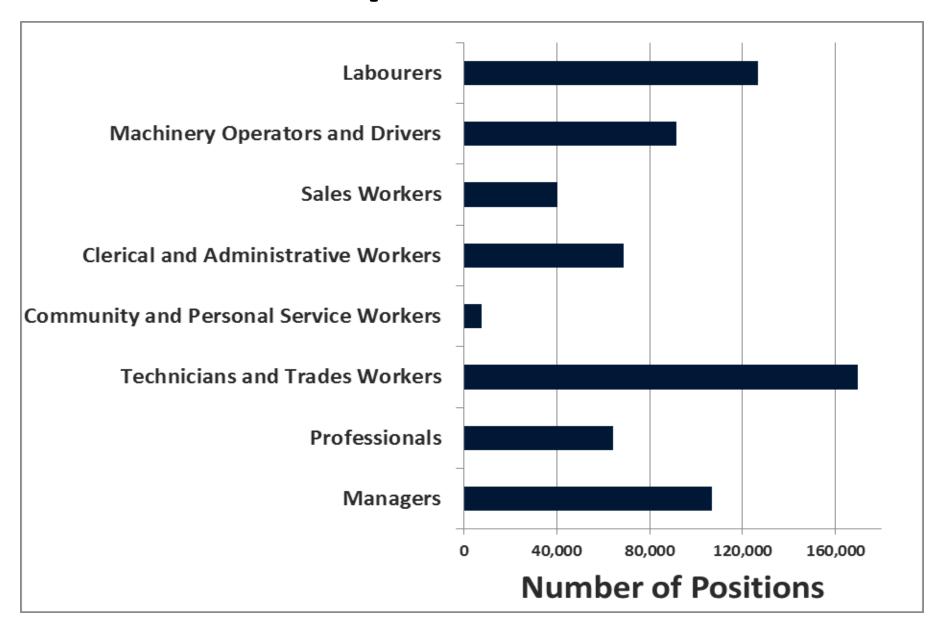
Don't Cut the Recovery Short

- Skills shortages could arise quickly, constraining future growth:
 - Sectoral & occupational diversity
 - Demographic transition of older workers
 - Increasing complexity and breadth of required skills (advanced manufacturing; digital technologies; desired integration of skill sets)

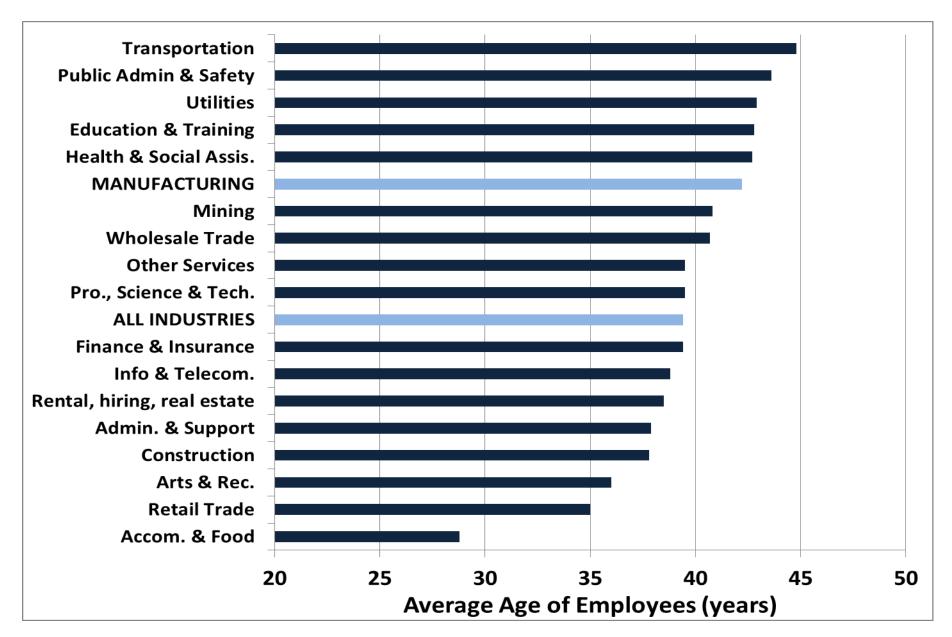
Winners and Losers



Occupational Mix



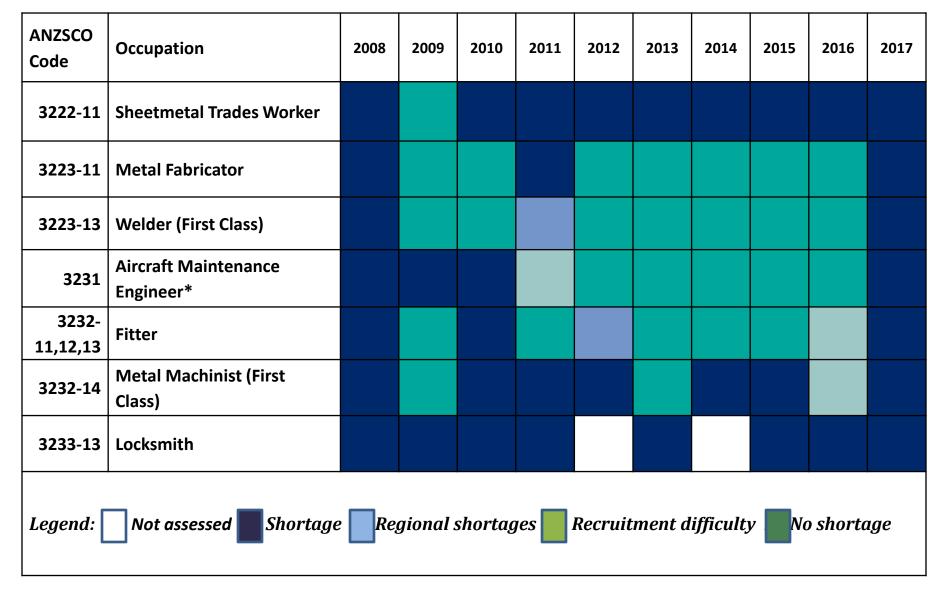
We All Get Older



The Pipeline is Empty

- Firms did not invest in apprentices and other skills development during the downturn.
 - Fiscal constraints
 - Uncertainty about future needs
- Lack of hiring coincided with advancing age.
- Irrationality of VET system exacerbated the problem.
- Consequence: Skills shortages arising quickly.

Shortages of Engineering Trades

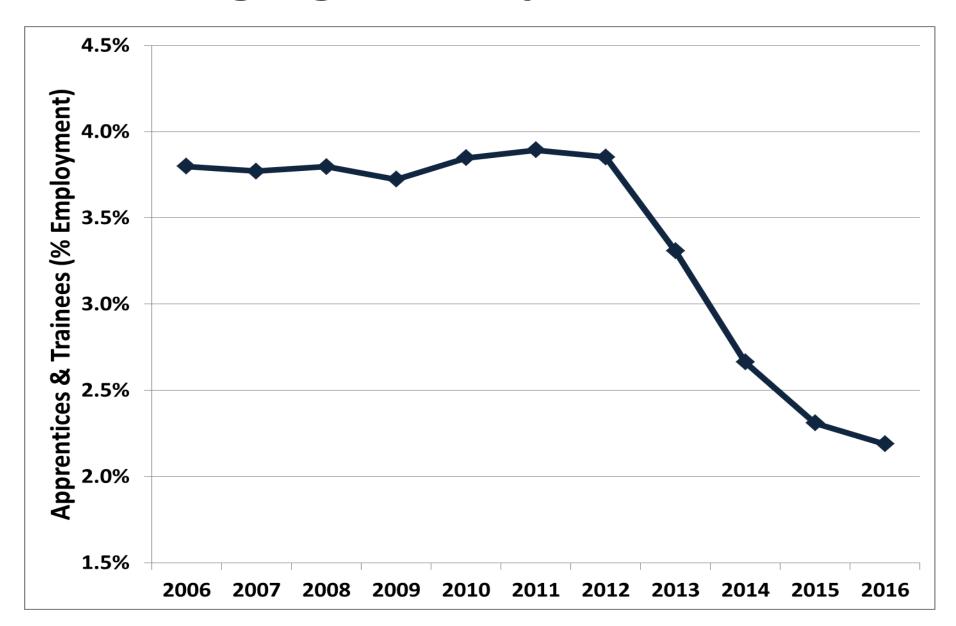


Source: Department of Jobs and Small Business (2018).

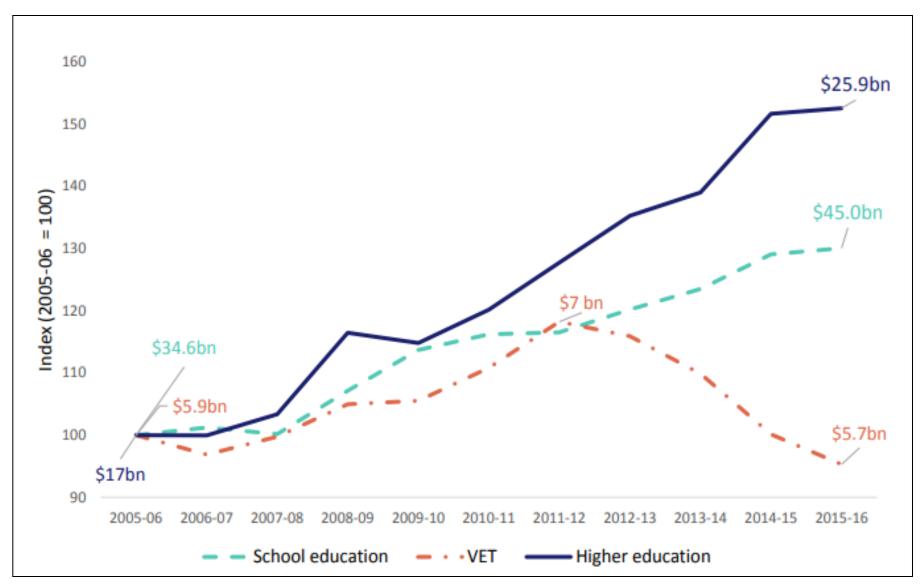
A Broken System

- Australian VET system in crisis:
 - Fiscal cutbacks from government (focused on universities).
 - Failed experiment with marketisation.
 - VET FEE-HELP fiasco.
 - Deep crisis faced by TAFEs.
- These problems afflict all sectors.
- But manufacturing hid hardest: greatest need for apprentices & skills.

Plunging Participation Rates



Funds Diverted from VET



Source: Pilcher and Torii (2017).

Other Challenges

- Increasing complexity of required skills.
- Fragmentation of curriculum into smaller units and microcompetencies.
- Poor completion rates.
- Access to training in precarious work.

Twelve Recommendations

- 1. Reestablish adequately funded and stable TAFEs as the centerpiece of vocational education.
- 2. Develop the capacities of TAFE manufacturing teachers and invest in modern training equipment.
- 3. Encourage partnerships on customised joint training initiatives between TAFEs and workplaces.
- 4. Expand other forms of integrated training between VET providers and workplaces.
- 5. Work to develop and implement higher-level and multidisciplinary qualifications reflecting emerging skills and composite capacities.
- 6. Shift emphasis in curricula and training programs toward comprehensive and complete qualifications, rather than micro-competencies.

Twelve Recommendations

- Integrate basic literacy and numeracy training into VET offerings at all levels.
- 8. Support apprenticeships in manufacturing with fiscal measures, instruction resources, and mentoring.
- Implement provisions ensuring access to training opportunities within modern awards and enterprise agreements.
- 10. Develop better-resourced systems to support retraining and redeployment of displaced workers in declining sectors.
- 11. Develop models for phased retirement to smooth demographic transition facing skilled trade positions in manufacturing.
- 12. Establish a leadership-level Manufacturing VET Policy Board to coordinate VET initiatives in the sector, and represent the interests of manufacturing in broader VET processes and dialogues.

Conclusion

- Our list not the final word.
- Start the discussion about necessary reforms.
- Participation from all stakeholders needed.
- Move quick:

– "Today's inaction is tomorrow's skills shortage."



Thank You!

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