PRESENTED BY:
SUSIE GEORGE, REGIONAL GENERAL MANAGER, NORTH
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TAFE NSW VISION & GOALS
VISION

Learning for jobs and brighter futures
We are the leading skills provider in the state: delivering relevant, high-quality, practical and creative training to grow the NSW economy through One TAFE NSW.

PURPOSE

Skill the workforce of the future

STRATEGIC GOALS

1. Skill the State’s workforce of the future as the provider of choice
2. Be a contemporary, commercial and sustainable business
3. Serve our local communities
4. Develop a customer-driven, proud and productive TAFE NSW team
SKILL THE STATE’S WORKFORCE OF THE FUTURE AS THE PROVIDER OF CHOICE

- We provide the skills needed to grow the NSW economy.
- We provide training that leads to jobs and courses that are geared towards priority and emerging industries.
- We offer modern, convenient and flexible training with an emphasis on industry-relevant practical learning.
- We are reimagining processes and services to enhance learner engagement and experience throughout their life-long learning journey.

SKILLSPOINTS

- Dedicated industry-specific focus and point of contact for employers
- Prepare our students for jobs for the future, using advanced digital courseware such as virtual reality, animation, simulations or augmented reality
- Training resources will be tailored to industry needs and reflect the quality, rigour and expertise that has secured TAFE NSW’s reputation as Australia’s largest education provider.

Innovative Manufacturing, Robotics and Science SkillsPoint
HQ: Newcastle
BE A CONTEMPORARY, COMMERCIAL AND SUSTAINABLE BUSINESS

- We have a new organisational design with regionally dispersed delivery arms and a virtually connected Corporate Office.
- We have a single streamlined digital entity.
- We want to strengthen our business development capability to drive growth in products and services that are in demand, and that support our reputation as a skills provider of choice.
- We are implementing real-time, integrated enterprise-wide business systems to standardise, improve efficient operations, and enhance customer experience.

TA FE DIGITAL

- Largest online learning provider in Australia offering over 250 online courses
- Provides in-demand education to students looking to work in high-growth areas
- New courses in Cyber Security, Digital Skills, and Marketing Analytics.

TA FE ENTERPRISE

- Quality, flexible employee training delivered by industry experts to support your business training objectives
- Works with TAFE NSW’s Digital Lab teams to define a client’s existing business problems, develop innovative solutions, and then use new applications and emerging technology (such as VR and AR) to help implement those solutions.
3 SERVE OUR LOCAL COMMUNITIES

- We cherish our role as the public provider of skills training.
- We embrace the diverse needs of our customers and deliver on our commitments to the communities we serve.
- Priority initiatives:
  - Expand access to services across regional and remote areas
  - Optimise delivery models and work with industry to service thin markets and areas of market failure
  - Provide inclusive and accessible services to culturally and linguistically diverse learners and those experiencing disadvantage (including the unemployed and those with a disability).
CONNECTED LEARNING CENTRES (CLCS)

- Newcastle/Hunter region:
  - Scone is a proposed location for a CLC
  - Construction of a CLC in Singleton began in May this year
- New, flexible, multi-purpose and digitally enabled learning environments
- Use modern technology to allow students to access a state-wide network of teachers and students
- Microsoft service hub, media wall, multi-touch LCD screens, virtual reality, Logitech meet-up spaces, writeable walls, digital signage, Apple MacBooks and Dell laptops, and more.

Mobile Training Units
Distance is no barrier to providing hands-on training to our students.
DEVELOP A CUSTOMER-DRIVEN, PROUD & PRODUCTIVE TAFE NSW TEAM

- We want to be a **productive, skilled and agile workforce**, operating in a performance-based, service-oriented culture that is aligned on a common set of values.

- We have:
  - **Implemented the One TAFE People and Safety Strategy**
  - **Commenced introduction of innovative tools to embed organisational values**
  - **Commenced the first phase of workforce plan**
  - **Commenced Digital Career Program for reskilling staff and to attract graduates**
  - **Implemented a Performance Framework. Systems supporting the framework on track for roll-out as planned**
  - **Implemented a state-wide orientation program.**
TAFE NSW’S PRESENCE IN THE NEWCASTLE AND HUNTER REGION
In 2017, TAFE NSW had over 44,750 enrolments at campuses in the Newcastle/Hunter region.

Top Courses in the Region
Nationally Recognised Qualifications in:
- Carpentry
- Electrotechnology Electrician
- Early Childhood Education & Care
- Commercial Cookery
- Business Administration
- Individual Support

Short Courses in:
- Foundation Skills Support
- Regulatory Safety Refresher
- ESI Refresher-Accredited Service Providers
- Cardiopulmonary Resuscitation
- Youth Engagement
- Vocational & Community Engagement
MEETING FUTURE SKILL NEEDS OF THE REGION
FORECAST EMPLOYMENT GROWTH IN NSW THROUGH TO 2021

TOP INDUSTRIES

HUNTER VALLEY
Health Care and Social Assistance +1,776
Retail Trade +1,058
Construction +920
Public Administration and Safety +581
Accommodation and Food Services +494

NEWCASTLE AND LAKE MACQUARIE
Health Care and Social Assistance +855
Professional, Scientific and Technical Services +732
Education and Training +607
Retail Trade +607
Administrative and Support Services +360

TOP OCCUPATIONS

HUNTER VALLEY
Aged or Disabled Carer +175
Child Care Worker +143
Chef +120
Miner +111
Electrician +107

NEWCASTLE AND LAKE MACQUARIE
Aged or Disabled Carer +141
Early Childhood (Pre-primary School) Teacher +116
Child Care Worker +94
Chef +77
Program or Project Administrator +76

Declining: Secretary (General), Bookkeeper, Commercial Cleaner
# Jobs in Demand: What Employers Have Been Increasingly Asking for in the Last Year

**Hunter Valley Region**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Change (#)</th>
<th>Change (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chef</td>
<td>21</td>
<td>233.3%</td>
</tr>
<tr>
<td>Cook</td>
<td>20</td>
<td>222.2%</td>
</tr>
<tr>
<td>Truck Driver</td>
<td>19</td>
<td>172.7%</td>
</tr>
<tr>
<td>Computer Network &amp; Systems Engineer</td>
<td>13</td>
<td>162.5%</td>
</tr>
<tr>
<td>Motor Mechanic</td>
<td>13</td>
<td>216.7%</td>
</tr>
</tbody>
</table>

**Newcastle & Lake Macquarie Region**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Change (#)</th>
<th>Change (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registered Nurses</td>
<td>250</td>
<td>108.7%</td>
</tr>
<tr>
<td>Accountant</td>
<td>118</td>
<td>30.3%</td>
</tr>
<tr>
<td>Enrolled Nurse</td>
<td>88</td>
<td>191.3%</td>
</tr>
<tr>
<td>Sales Representatives</td>
<td>70</td>
<td>40.9%</td>
</tr>
<tr>
<td>Information Officer</td>
<td>60</td>
<td>27.3%</td>
</tr>
</tbody>
</table>

*Occupations that experienced the largest growth in online job ad postings when comparing the 12-month period through to July 2018 to the prior 12-month period*
The region is increasingly embracing innovation and intellectual resources to strengthen existing industries and to create new ones. The region is transitioning to an advanced manufacturing base, centred around the growing defence manufacturing sector.

**Sectors supporting Newcastle as a smart city**

- Technology
- Health
- Education
- Aerospace and defence
- Renewable energy

**Key skills for transitioning to the region’s future jobs**

- STEM
- Entrepreneurship
- Digital literacy
- IoT & AI
- Soft skills

**EVET Pathway to Certificate II in Aeroskills** will be offered in 2019 to skill the future workforce of Williamtown’s growing aerospace industry.
The pace of technological change is rapid and TAFE NSW has a significant role in skilling the workforce of the future.

This involves providing learners with practical, higher level skills that are more resilient to automation and digitisation and skills that prepare workers for careers in new or changing jobs and industries.

Training for future jobs needs to not only focus on increasing technical skills for working with new technologies, but on developing transferable enterprise skills such as STEM skills, critical thinking, and entrepreneurialism.

TAFE NSW is preparing learners to respond to this changing world of work and digital disruption.

65% of kids today will do jobs that have not yet been invented (OECD)
How the manufacturing industry is changing:

• The region has a strong history in heavy engineering
• Over the last several years, advanced manufacturing has emerged as a key sector
• Using smart technologies products and services across a range of industries are being improved including in medical, food, and supply chain industries
• By adopting smart manufacturing technologies, manufacturers in the region are becoming globally competitive.

Hunter industries are now utilising computing for modelling, simulation and analysis for design, project management, advanced planning and scheduling, finite element analysis, Enterprise Resource Planning (ERP) and Manufacturing Resource Planning (MRP).

– Hunter Business Publications

Smart City: The Smart City Program will see the region capitalise on opportunities in a number of industries including advanced manufacturing, technology, the digital economy, and creative industries.
By 2030 it is predicted that employees will spend:

- 30% more time per week learning skills on the job
- 100% more time at work solving problems
- 41% more time on critical thinking and judgement
- 77% more time using science and mathematics skills
- 17% more time using verbal communication and interpersonal skills
INNOVATIVE & PRACTICAL TRAINING
TAFE NSW responds to emerging skills needs

- Cyber Security sector is forecast to grow from $2 billion to $6 billion over next 10 years.

- **Certificate IV in Cyber Security** available in the region and through TAFE Digital. Students develop skills in:
  - Monitoring risk of cyber attacks
  - Implementing software
  - Mitigating cyber security threats
  - Protecting organisations from insider breaches
  - Developing systems to minimize vulnerabilities

- TAFE Digital has partnered with **Ribit.net**, an online job-matching platform (part of CSIRO’s Data61) with internships and jobs in **big data analytics, cyber security, fintech and Ai**.

TAFE NSW courses skill the workforce of the future

Australian businesses are expected to need more than 11,000 additional workers in cyber security over the next decade to meet demand.
STEMSHIP PROGRAM

TAFE NSW adapts to meet demand for STEM skills

- STEMship is Australia’s first VET pre-employment program focusing on the development of STEM skills at a technical level
- Partnership between RDA Hunter, NSW Department of Industry, and TAFE NSW
- In 2018, 16 students from the Hunter are undertaking the program
- Outcome-oriented. Majority of students gain employment at completion of the course

TAFE NSW skills the workforce to meet industry demands
The STEMship Program aims to meet skills gaps in the region including in advanced manufacturing and aviation
ROKOKO SMARTSUIT PRO

TAFE NSW’s training embeds changing technologies

- Introduced at TAFE NSW Newcastle this year, part of the refurbished Music and Performing Arts faculty
- Rokoko Smartsuit Pro bodysuits give students access to Hollywood-quality motion capture technology
- Equips students with a future-proofed skill set
SUPPORTING SKILLS
CURRENCY
IMPORTANCE OF LIFE LONG LEARNING TO BUILD RESILIENCE IN A CHANGING JOB MARKET AND THE FUTURE OF WORK

- Australians are expected to have 17 jobs across five careers in their lifetime
- TAFE NSW is implementing personalised learning environments
- Customising and ensuring portability of skills e.g. interpersonal competencies, digital literacy, data literacy, entrepreneurship, physical health and mental well-being
- Bolstering the resilience of workers through reskilling and upskilling so that they can move across industries and sectors; offering skills development at work
- Continually reviewing courses and facilities to suit local community and industry needs

Over 70% of TAFE NSW enrolments in 2017 were from students in the labour force.
THANK YOU