A plan for coding and robotics in Queensland state schools

Our world is changing more rapidly than at any other time in history with the influence of technology spreading to every aspect of our lives. Queensland is well placed to take the next leap to predict and respond to the global megatrends. This will keep us internationally competitive - influencing the way we live, the way we work and who we are.

Coding and robotics are important for every student to prepare them for the jobs of the future, where technology will be part of every workplace. But it’s not just about the code. Learning coding engages students in developing their skills in critical thinking, creativity, collaboration and innovation.

Understanding coding is the new literacy and a “must have” for every student.

Our schools are partnering with industry and universities, generating real pathways for our students into the world of work and further study. Through these partnerships, our teachers are increasing their skills and our students are connecting coding and robotics to their future.

By making innovation and knowledge-based industries a key focus of this government, we are intent on delivering a new era of opportunity for Queenslanders.

Annastacia Palaszczuk MP
Premier and Minister for the Arts, Queensland

#codingcounts

Kate Jones MP
Minister for Education

Technology is touching every aspect of our lives - work and home. We must inspire students to be the designers of our digital future.

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60% of new jobs require skills held by 20 per cent of the workforce

1 in 2 of the world’s entrepreneurs are between the ages of 25 and 44

40% of Australian jobs are at risk of being automated in the next 10-15 years

3 in 4 of the fastest growing occupations require science, technology, engineering and mathematics (STEM) related skills and knowledge

#codingcounts for Queensland
“
In ten or 15 years, I think that robots will be as commonplace as smartphones...”

Daniela Rus  
Professor, Electrical Engineering and Computer Science,  
Massachusetts Institute of Technology

1% of Queensland state schools will be teaching coding and robotics by 2020

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Professor, Electrical Engineering and Computer Science,  
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Next gen collaboration  
We will extend partnerships with industry, universities and researchers to harness the creativity of the technology community and connect students and schools with cutting edge innovation.

The Premier’s Creating Queensland’s Future coding competition, in collaboration with industry, will present students with coding and robotics challenges, and showcase student innovation across the years of schooling.

Fast-track Digital Technologies  
The new Queensland Coding Academy is providing learning opportunities for students and teachers, creating virtual classrooms of coding excellence across the state, and supporting innovation in teaching coding and robotics.

The Young Scholars program will reach across the state, connecting students in regional and remote areas.

CEDA, 2015.  
“Australia’s future workforce?”  


Robotics for the future  
We will bring cutting edge robotics to Queensland state schools. Engaging with robotics will build Queensland students interest in coding and applying it to real world applications.

Start-up the Queensland coding academy  
The new Queensland Coding Academy is providing learning opportunities for students and teachers, creating virtual classrooms of coding excellence across the state, and supporting innovation in teaching coding and robotics.

The Young Scholars program will reach across the state, connecting students in regional and remote areas.

The Queensland Coding Academy will work with industry and universities to link students to the real world of work and research.

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