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# Conclusion

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An analysis of the history of technical and further education in Queensland reveals some constant questions and problems that have confronted successive administrators.

One of TAFE's major goals has been to supply skilled workers for the industrial needs of the State. A recurring problem, however, has been that both the types of technical courses offered and number of student enrolments in particular courses have reflected the prevailing economic situation rather than reflecting future needs. Over the years, this has often led to an imbalance between supply and demand of skilled labour. A concomitant of this has been the importation of skilled labour and the lack of technical training of Queensland youth.

Who should pay for technical education has been a recurrent problem facing successive administrations. Answers to this question have varied. At first, the recipients paid, assisted by subsidies to the colleges. Then, from 1908, the State Government progressively undertook the major financial burden, with student fees meeting only a small part of the total costs. Since 1964, the Commonwealth Government has become an important contributor to technical education funding. Employers in the past have made some contribution by providing apprentices with paid time-off to attend colleges. In 1977 some of this burden was removed from their shoulders. Now, however, the Commonwealth Government requires large employers to allocate a percentage of their total payroll for training of their personnel. This training includes technical education. Furthermore, in the last few years, the Division of TAFE and its successors have implemented a policy of fees for services wherever possible.

Who should control TAFE? Initially, society saw technical education as the responsibility of the local community. The Government then put a board in control for a very brief period from 1902 to 1905, and then handed over control to the Department of Education. In 1987 control of TAFE passed first to a Department of Employment and Vocational Education and Training and then, in 1990, to a Bureau of Employment, Vocational and Further Education and Training, which came

under the Department of Employment, Vocational Education, Training and Industrial Relations. Current planning has paved the way to control by a commission under the guidance of a board. While control of TAFE is ultimately a State concern, State acceptance of Federal financial assistance gives the Commonwealth some power to determine policies.

What should be taught in colleges of TAFE? In 1882 Joseph Clarke, the art teacher who taught classes at the North Brisbane School of Arts, believed that a technical college should teach any subject for which there was a demand. At first, officials of the Department of Public Instruction were concerned that only technical subjects should be taught in technical colleges, for they believed that the subjects taught should be determined by the meaning of the word technical. However, early societal needs and Departmental expediency ensured that technical colleges continued to teach liberal as well as technical subjects at many levels. Subsequently, the opening of the University of Queensland in 1911, the establishment of high schools in 1912, and the rationalisation of education at both State and national levels during the 1960s resulted in technical colleges being stripped of liberal studies and secondary and tertiary level courses. The polytechnic institution did not survive. This trend has slowly been reversed since the early 1980s, with colleges of TAFE becoming the venue for technical courses integrated with secondary and tertiary courses.

The status of technical education has been another constant problem. In spite of protestations about the importance of technical education to the economy of the State, subjects of a technical nature were generally regarded as being of lower status than academic subjects, and technical colleges had a lower standing than secondary schools and universities. Furthermore, since the qualifications of technical teachers were generally of a non-academic nature and because they lacked teacher-training, they were regarded by teachers in other branches of education as inferiors. The greater amount of money currently being spent on TAFE would seem to indicate a greater recognition of the value of technical education in the eyes of the community.

# Appendixes

## Appendix 1: Technical and further education in Queensland: A chronology

1882	Opening of Brisbane Technical College under auspices of Brisbane School of Arts.
1894	Schools of Mines Act provided for establishment of Schools of Mines.
1898	Brisbane Technical College Incorporation Act gave control of the college to a Council.
1902	Board of Technical Education created.
1905	Board abolished and Technical Education Branch created to supervise syllabuses and appointments of teachers.
1908	Technical Instruction Act amalgamated the three Brisbane colleges into Central Technical College under control of Technical Education Branch.
1915	Appointment of first Trade Advisory Committees for apprenticeships.
1916	Industrial Arbitration Act made provision for regulation of apprenticeship system.
1918	Technical Instruction Act Amendment Act enabled Department of Public Instruction to take over control of country colleges.
1920	Central Apprenticeship Committee constituted.
1924	Apprenticeship Act.
1929	Apprentices and Minors Act.
1934	Apprentices and Minors Act Amendment Act.
1944	State inquiry into apprenticeship.
1945	Apprentices and Minors Act Amendment Act.
1948	Apprentices and Minors Act Amendment Act.
1950	Commonwealth-State inquiry into Apprenticeship.
1954	Apprentices and Minors Act Amendment Act.
1957	Formation of National Australian Apprenticeship Advisory Committee.
1959	Apprenticeship and Minors Act Amendment Act.
1964	State Education Act - reform of technical education. Apprenticeship Act. Martin Report. Commonwealth special grants for technical education.
1965	First of the institutes of technology established - Queensland Institute of Technology.
1970	Education Act Amendment Act gave autonomy to CAEs.
1974	Kangan Report.
1976	Anderson Report on Apprenticeship.

1977	Technical and adult education integrated to form Technical and Further Education (TAFE) Branch.
1979	Industry and Commerce Training Act.
1980	TAFE Branch renamed Division of TAFE. Ahern Report.
1987	TAFE Branch separated from Department of Education to become Department of Employment, Vocational Education and Training (DEVET).
1988	Employment, Vocational Education and Training Act.
1990	DEVET becomes Bureau of Employment, Vocational and Further Education and Training (BEVFET).

## Appendix 2: College opening and closing dates

### Opening dates of colleges of TAFE

College	Opened	Taken over	Separated
Bundaberg	1889	1924 (HS)	1965
Burdekin	1985		
Cairns	1899	1924 (HS)	1965
Central Highlands College of South West*	1988		
COTAH	1977	(1968 - Annexe of Kangaroo Point)	
Gateway College	1966		
Gladstone	1982		
Gold Coast	1976	(1969 - Annexe of Southport SHS)	
Hervey Bay*	1986		
Ipswich	1891	1951 (HS)	1963
Ithaca	1974	(1970 - Annexe of CTC)	
Johnstone	1988		
Kangaroo Point	1968		
Logan	1988		
Mackay	1892	1912 (HS)	1962
Maryborough	1889	1943 (HS)	1965
Mount Gravatt	1979		
Mount Isa	1956 (HS)		1971
North Point	1980		
Professional Development	1989		
QDEC	1945		

Queensland College of Art	1972			Lockyer	1920 (HS)	1934	
Redland Community*	1987			Mount Morgan	1901	1929	Taken over in 1929 and then closed; reopened 1941 (HS); closed again in 1965.
Rockhampton	1890	1919 (HS)	1962				
Seven Hills	1977	(1971 - Annexe of Kangaroo Point, 1989 - amalgamated with Qld College of Art) (1945 - Annexe of CTC)		Normanton	1900	1901	
South Brisbane	1966			Ravenswood	1900	1903	
South Burnett	1985			Roma	1902	1905	Reopened in 1920 (HS); college closed in 1929, leaving HS open.
Warwick	1896	1910 (HS)	1971				
Southern Downs Community	1988	(Replaced Warwick)		Sandgate	1898	1939	
Sunshine Coast	1982			South Brisbane	1894		Amalgamated with Central 1910.
Toowoomba	1890	1920 (HS)	1962	Southport	1898	1899	
Townsville	1889	1924 (HS)	1965	Stanthorpe	1901	1905	
Yeronga	1967			Stanwell	1901	1901	Reopened in 1903; closed in 1904.
<b>Notes</b>				West End	1889		Amalgamated with Central 1910.
Opened	Opened as separate college with its own administration.			Zillmere	1896	1896	
Taken over	Independent colleges taken over by the Department of Education.			<b>Notes</b>			
Separated (HS) (date-annexe)	Separation of college from the high school. Existing or new high schools attached. Date the institution began earlier as an annexe of another college.			Taken over - refers to independent colleges taken over by the Department of Education. (HS) - Existing or new high schools attached at that time.			
*	Senior Colleges.						

College	Opened	Closed	Notes
Victoria Institute (Allora)	1898	1904	
Beenleigh	1900	1902	
Bowen	1899	1907	Reopened in 1909; taken over in 1924 (HS); closed 1928.
Central	1910	1974	Central - amalgamation of Brisbane (opened in 1882), South Brisbane and West End technical colleges.
Charleville	1900	1902	
Charters Towers	1892	1929	Taken over in 1919 (HS).
Charters Towers School of Mines	1901		Amalgamated with Charters Towers in 1919.
Childers	1901	1902	
Clermont	1900	1901	
Cooktown	1896	1896	
Croydon	1906	1907	
Dalby	1901	1903	
Gin Gin	1901	1901	
Gympie	1891	?	Closed between 1937 and 1970.
Herberton	1908	1914	
Howard	1900	1901	
Hughenden	1890	1902	

## Appendix 3: Technical education syllabus, 1919

### Department of Agriculture

Agriculture  
Dairying  
Milk and Cream Testing  
Sugar Chemistry  
Junior Assistant Sugar Chemist  
Assistant Sugar Chemist  
Sugar Chemist

### Department of Art

Freehand Drawing  
Catalogue Illustration  
Blackboard Drawing  
Painting  
Modelling  
Woodcarving  
Geometrical Drawing  
Perspective Drawing  
Design  
Diploma in Art Craftsmanship

### Department of Building

Building Construction and Drawing  
Quantity Surveying  
Woodwork  
Carpentry and Joinery  
Staircasing and Handrailing  
Cabinet-making  
French Polishing  
House Painting and Decorating  
Sign-writing and Lettering

Show Card and Ticket Writing  
Plumbing  
Chemical Plumbing

### **Department of Chemistry, Mining and Metallurgy**

Inorganic Chemistry  
Analytical Inorganic Chemistry  
Assaying  
Metallurgy  
Dental Metallurgy  
Geology  
Mining Geology  
Mineralogy  
Mining  
Mine Surveying and Planning  
Ore Dressing  
Mine Administration  
Diploma in Metallurgy  
Diploma in Mining (Metal-mining)  
Diploma in Mining (Coal-mining)  
Metalliferous Mines Collieries  
Industrial Chemistry

### **Department of Commerce**

Shorthand (Pitman's System)  
Shorthand (Gregg's System)  
Typewriting  
Bookkeeping  
Accountancy  
Modern Business Methods  
Diploma in Accountancy

### **Department of Domestic Science and Art**

Domestic Economy  
Cookery  
Fruit Preserving and Pickling  
Confectionery  
Cake-icing  
Scientific Baking and Milling  
Starching and Ironing  
Dressmaking  
Millinery  
Diploma in Domestic Science and Art

### **Department of Engineering**

Trade Drawing and Sketching  
Engineering, Drawing and Machine Design  
Mechanics (Applied Mathematics) Applied  
Mechanics  
Heat Engines  
Engine-driving  
Pattern-making  
Blacksmithing  
Fitting and Machining  
Boilers and Boiler-making  
Electrician's Workshop Course Supplementary  
Course for Mining Students Electrical  
Engineering  
Diploma in Engineering

### **Department of Languages and Literature**

English  
English History

Geography  
French  
German  
Latin

### **Department of Mathematics**

Arithmetic and Mensuration  
Trade Arithmetic Commercial  
Arithmetic Algebra  
Geometry  
Trigonometry  
Surveying  
Surveying and Drafting  
Calculus

### **Department of Science**

Botany  
Physics  
Physiology  
Ambulance  
Home Nursing

### **Department of Sheep and Wool**

Woolclassing and Woolsorting  
Sheep and Wool  
Veterinary Science  
Diploma in Sheep and Wool Training

### **Special Syllabuses of Subjects for Pupils of State Schools Attending Technical Colleges**

Geometrical Drawing  
Shorthand Bookkeeping  
Manual Training - Woodwork  
Elementary Cookery  
Dressmaking  
*Source: Syllabus of Technical Colleges, Department of Public Instruction, Queensland, 1918*

## **Appendix 4: Technical education courses, 1960**

### **Part I - Associate Diploma, Diploma, and Certificate Courses**

#### **General Information**

#### **Agriculture**

Diploma in Agriculture  
Diploma in Animal Husbandry  
Diploma in Dairy  
Diploma in Horticulture  
Diploma in Sheep and Wool  
Certificate in Agricultural Science  
Certificate in Horticultural Science

#### **Architecture and Building**

Diploma in Architecture  
Diploma in Building  
Diploma in Quantity Surveying  
Certificate in Architecture  
Certificate in Building  
Certificate in Building (Correspondence)

## **Art**

Diploma in Art Teachers  
Diploma in Commercial Illustration  
Diploma in Drawing and Painting  
Diploma in Modelling and Sculpture  
Certificate in Advertising Certificate in Applied Art  
Certificate in Dress Design  
Certificate in Furniture Design  
Certificate in Interior Decoration  
Certificate in Photography  
Certificate in Pottery Making

## **Chemistry**

Diploma in Sugar Chemistry Diploma in Industrial Chemistry Certificate in Laboratory Technology

## **Commerce**

Full Day Commercial Course  
Full Day Stenotypists Course  
Certificate in Accountancy  
Certificate in Cost Accountancy  
Certificate in Secretarial  
Certificate in Management  
Certificate in Personnel Administration  
Certificate in Printing Administration  
Certificate in Purchasing and Supply Management  
Certificate in Supervision Certificate in Transport Administration  
Certificate in Work Study

## **Engineering**

Associate Diploma, Diploma, Certificate in Civil Engineering  
Associate Diploma, Diploma, Certificate in Electrical Engineering  
Associate Diploma, Diploma, Certificate in Mechanical Engineering  
Certificate in Engineering Drafting  
Certificate in Survey Drafting  
Certificate in Television Receiver Servicing  
Certificate in Engineering Surveying

## **Home Science**

Diploma in Home Science

## **Mining**

I - Coal Mining  
Diploma in Coal Mining  
Certificate for Colliery Managers  
Certificate for Mine Electricians  
Certificate for Mine Surveyors (Coal)  
II - Metal Mining  
Certificate in Assaying  
Certificate in Geology  
Certificate in Mining Surveying (Metal)

## **Part II - Apprenticeship Courses**

### **General Information**

#### **Building Trades**

Bricklaying  
Carpentry and Joinery  
House Painting and Decorating  
Joiners' Machinists  
Leadlight Working and Glazing  
Plastering  
Plumbing  
Sign-writing and Lettering

Stonemasonry  
Terrazzo Floor Layers and Fixers of Terrazzo and Marble Veneer  
Tiling (Floor and/or Wall)

#### **Coach and Motor Trades**

Coach and Motor Body Building  
Coach and Motor Painting  
Coach and Motor Trimming  
Panel Beating

#### **Electrical Trades**

Electrical Trades  
Electrical Fitters (Automotive)  
Electroplating  
Radio Mechanics

#### **Furniture Trades**

Cabinet Making French  
Polishing  
Upholstering  
Wood Machining

#### **Mechanical Trades**

Aircraft Mechanics, Air Frame Mechanics, and Ground Engineers  
Blacksmithing  
Boilermaking  
Cash Register, Adding, Calculating, Bookkeeping, and Other Similar Type Machine Mechanics  
Fitting and Turning  
Knitting Machine Mechanics, Sewing Machine Mechanics, Loom Tuners and Wool Combers  
Motor Mechanics  
Moulding  
Patternmaking  
Refrigeration Mechanics or Servicemen  
Scalemaking  
Sheetmetal Working and Coppersmithing  
Typewriter Mechanics

#### **Miscellaneous Trades**

Boatbuilding  
Boot Repairing  
Bread Baking  
Dental Mechanics  
Ladies' Hairdressing  
Jewellery  
Optical Mechanics  
Pastrycooking  
Shipwrighting  
Watchmaking

#### **Printing Trades**

Bookbinding  
Composing  
Letterpress Machining  
Linotype Mechanics  
Lithography  
Photo Engraving  
Stereotyping

#### **Railway Trades**

Blacksmiths and Springmakers  
Boilermakers  
Carriage Building and Wagon Building  
Coach Painters  
Coppersmiths and Sheetmetal Workers  
Electroplaters  
Fitters, Turners, Metal Machinists and Motor Mechanics

Patternmakers  
Toolmakers  
Wood Machinists

### Apprenticeship Courses Available by Correspondence

#### Part III - Other Courses

##### General Information

##### Commerce

Bookkeeping and Accounts  
Shorthand  
Typewriting  
Automotive Replacement Parts: Salesman  
Industrial Safety  
Insurance Institute  
Preparatory Supervision  
Real Estate and Valuation  
Salesmanship - Principles and Practice  
Training Within Industry  
Work Methods Development and Improvement

##### Hobby

Art  
Automotive  
Electrical  
Home Science  
Mechanical  
Plumbing  
Printing  
Woodworking

##### Special Purpose

Aircraft and Allied Trades  
Building  
Chemistry  
Electrical  
Engineering  
General  
Hairdressing Refresher  
Librarianship Mining  
(Preliminary) Optometry  
Petroleum  
Pharmacy  
Plumbing  
Post Apprenticeship  
Sheep and Wool  
Woodwork

##### Correspondence

Art  
Building  
Clerk of Petty Sessions and Stipendiary Magistrate Examinations  
Literary  
Mathematics  
Rural  
Home Science  
Technical Type Courses  
Commercial  
Insurance  
Local Government  
Real Estate and Valuation

**Source:** *Handbook of Courses*, Technical Education Branch,  
Department of Education, Queensland, July 1960

## Appendix 5: Head Office staff, 1987

### Division of Technical and Further Education Director

J. Swan, B.Sc.Tech.(Ind.Chem.)

Deputy Director (Education Services) P.L. Tait, B.Ed.,  
Grad. Dip. Sch.Admin., Dip.M.E.E.

Deputy Director (Planning and Development) N.T. Pyle,  
B.E.(Elec.),  
Ph.D.(Lancaster), Cert.Pub.Admin.

Assistant Director (TAFE Curriculum Services) J.C.  
Stevenson, B.Sc., B.Econ., Ph.D.

Assistant Director (Staffing and Services) J.A. Ramsay,  
Dip.M.E.E., Assoc.Dip.E.E.,  
Grad.Dip.Bus.Admin.

Assistant Director (Resource Management) M.I. Csurhes,  
B.Sc.

#### Inspectors of TAFE Colleges

P.E. Burroughs, B.Ed.St., M.Ed.(Alberta) - to September 1987

K.I. Wardrop, Ass.Dip.M.E. - acting from September to November 1987

S.F. Sielaff, B.Bus., M.Ed.Admin., Cert.Mech.Eng.

G. J. Bowness, Grad.Dip.Ed.Admin., Dip.M.E.E.

W.N. Hird, M.Ed.(Hull), Adv. Dip.Ed.(Cantab)

G.L. Holmes, B.Ed.St., M.Ed.Ad., Cert.Elec.Eng.

R.G. Dungleison, B.Sc., M.A., Dip.Ed. - from November 1987

R.A. Sullivan, B.A., M.Ed. - from November 1987

G.M. Young, B.Ed., Dip.T, Grad.Dip.Comp.Ed. - from November 1987

A.J. Bowen, B.Tech(Elect.), B.Ed.St. - from November 1987

E.S. Jesienowski, B.Sc., Dip.Cont.Ed. - from November 1987

D.M. Clacherty, B.A. - from November 1987

Supervisor, TAFE Operations V.J. Caulfield, B.Ed.,  
Grad.Dip.Ed.Admin., Cert.Elec.Eng. - to October 1987

H.E. Parker, B.A.(Hons.), Ph.D., M.A.(Ed.), Dip.Ed. - from October 1987

Principal Education Officer, Grade II (Staffing and Services) G.M. Young, B.Ed., Dip.T.,  
Grad.Dip.Comp.Ed. - to November 1987

J.W. Fletcher, B.Ed., Grad.Dip.Sch.Admin. - acting from  
November 1987

Principal Education Officer, Grade II (Buildings and Accommodation) K.S. Crump, M.Urb.&Reg.Plg.,  
B.Arch.

Principal Education Officer, Grade II (Financial Administration) D. Gillingham, M.Sc.

Principal Education Officers, Grade II (Curriculum)  
B.R.G. Hutchison, B.A., Grad.Dip.Sch.Admin., Dip.Y.  
and B.M., Dip.T., Cert.Mech.Eng.

B.R. Eaton, B.A., M.Ed.St.

Principal Education Officer, Grade II (Professional Development) C.V. Robertson, B.Sc.(Hons.), B.Ed.St.

Principal Education Officer, Grade II (State Resource Materials Centre) L.C. Dobson, B.A.(Hons.),  
Dip.Soc.Sc.

**Source:** *Annual Report of the Department of Education, Queensland, 1987,*  
p. 62