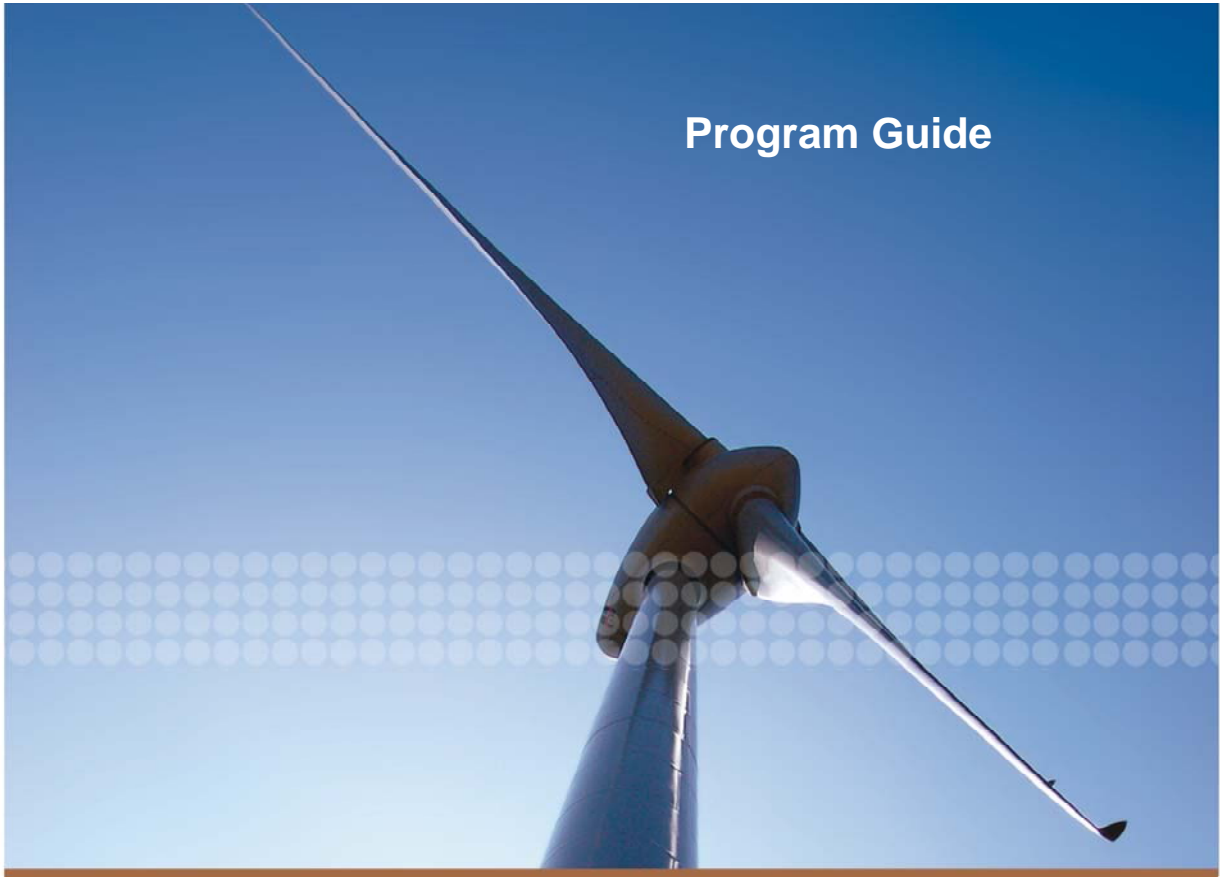


# Power Generation Skills Development

## Program Guide



# POWER GENERATION SKILLS DEVELOPMENT

The Power Generation Skills Development program has been developed in consultation with the power generation industry to meet the skills needs of the sector and to move the industry into the future progressively and sustainably.

At the request of the power generation industry this program has been developed and is delivered by three of Australia's leading universities: Central Queensland University, The University of Queensland and Queensland University of Technology.

This guide is designed to assist students with the administrative processes of the three universities to obtain a postgraduate degree in Power Generation.

The guide will provide advice on:

1. Selecting a home university
2. Entry requirements
3. 2008 course schedule
4. Navigating administrative processes
5. Payment options.

To access the Power Generation programs students will need to select a home university and program that meets their career requirements. The home university is the university from which students will receive their qualification upon completion of their program.

## Selecting a Home University

A student's home university will depend on the electives they choose to study and their ability to meet the university's entry requirements. Students are required to study a minimum number of courses at their home institution (more information below). A complete list of power generation courses is below.

Core courses	University
ENPG22001 Asset Management Systems	CQU
EPG001 Introduction to Power Plant	QUT
MECH7350 Rotating Machinery	UQ
MECH7650 Regulation, Compliance and Safety	UQ
EPG005 Project Delivery	QUT

Elective courses delivered by CQU	Elective courses delivered by UQ	Elective courses delivered by QUT
ENPG22001 Power Plant Chemistry	ELEC7052 Plant Control Systems	EPG006 Applied Thermodynamics
ENPG21002 Advanced Power Plant	ELEC7050 Generator Technology Design and Operation	EPG011 Industrial Power Distribution
ENPG22002 Bulk Materials and Waste Products	ELEC7051 Transformer Technology Design and Operation	EPG015 Industrial Power Systems
ENPG22003 Plant Materials	MECH7260 Gas Plant and Systems	

## Program Options

### Master of Engineering

To graduate from this program a student must successfully complete:

- five core courses and
- three elective courses.

### Graduate Certificate Programs

To graduate from this program a student must successfully complete:

- three core courses and;
- one elective course.

Home University	Master of Engineering	Graduate Certificate	Admission deadline
CQU	All core courses and two CQU electives plus one elective from any university	Asset Management Systems and one CQU elective plus two core courses any university	February 15
UQ	All core courses and one UQ elective plus two electives from any university	Two UQ courses plus two courses from any university	January 31 (applications accepted after this date may attract a \$50 late fee)
QUT	All core courses and one QUT elective plus two electives from any university	Two QUT courses plus two courses from any university	January 23 (applications accepted after this date may attract a \$50 late fee)

### Graduate Diploma Program

Central Queensland University offers a Graduate Diploma program which will enable a Graduate Certificate student to articulate to a Master of Power Generation degree and provide an entry point for students who do not hold a bachelor degree.

To successfully complete this program a student must study the five core courses and three electives. Students entering the Master's program from this point will be required to also complete a 24 point research project.

### Entry requirements

CQU	Entry requirements
CG49 Master of Power Generation	<ol style="list-style-type: none"> <li>A three year Bachelor Degree in Engineering, Technology or Applied Science</li> <li>Completed requirements for the Graduate Certificate of Power Generation</li> </ol>
CG43 Graduate Diploma of Power Generation	<ol style="list-style-type: none"> <li>A minimum requirement of Associate Diploma, or a degree in engineering, technology or applied science, or equivalent. Plus current employment in a technical capacity in the power generation industry</li> <li>Significant experience and a demonstrated competence in the field of Power Generation engineering. These applicants must first pass the Graduate Certificate in Power Generation requirements before progressing to the Graduate Diploma of Power Generation.</li> </ol>
CG42 Graduate Certificate in Power Generation	

UQ	Entry requirements
	<b>UQ welcomes applications from persons:</b>
5359 Master of Engineering (Power Generation)	<ol style="list-style-type: none"> <li>With an approved degree equivalent to a four-year degree in the chosen field; and</li> <li>Who satisfy the Executive Dean and Head of School that, based on the student's academic record, the student is qualified for admission.</li> </ol>
5023 Graduate Certificate in Engineering (Power Generation)	<ol style="list-style-type: none"> <li>A Bachelor of Engineering degree or equivalent; or</li> <li>Relevant post-secondary study and two years' relevant work experience approved by the Executive Dean.</li> </ol>
Application deadline for postgraduate coursework at UQ	Semester 1: 31 Jan. Semester 2: 30 June

QUT	Entry requirements
BX20 Master of Engineering (Power Generation)	I. A Bachelor degree in Engineering and at least second class honours with a study of power engineering related subjects to a third year level; or II. Students with the degree qualification, but who do not have second class honours may transfer after completing the Graduate Certificate provided they achieve a GPA of 5.0 or greater
BX21 Graduate Certificate in Engineering (Power Generation)	I. A Bachelor of Engineering degree or equivalent; or II. Provision for entry by Associate Diploma or Advanced Diploma holders with industry experience.

## 2008 course schedule

Course code	Course name – Term / Semester 1	Workshop dates	University
ENPG22001	Power Plant Chemistry	May 1 and 2	CQU
EPG001	Introduction to Power Plant	March	QUT
EPG005	Project Delivery	April	QUT
ELEC7052	Plant Control Systems	18, 19 April and 17, 18, 19 May	UQ
ENPG22003	Plant Materials	May, 14, 15, 16 and June 5, 6	CQU
	<b>Term / Semester 2</b>		
MECH7650	Regulation, Compliance and Safety	21 - 25 July	UQ
EPG006	Applied Thermodynamics	July	QUT
MECH7260	Gas Plant and Systems	TBA	UQ
EPG015	Industrial Power Systems	August	QUT
ELEC7050	Generator Technology Design and Operation	August	UQ
ENPG21002	Advanced Power Plant	September 1 to 5	CQU
ENPG22002	Bulk Materials and Waste Products	September	CQU
ENPG21001	Asset Management Systems	October	CQU

## Administrative processes

### NOTE:

It is important that students enrol in all the courses they intend to study for each term as soon as possible, including courses being taught at the universities that are not their home university through cross-institutional study application.

### Central Queensland University

CQU students will need to take the following steps to successfully complete a power generation program.

Process	Term 1 Deadlines	How
Admission to CQU and the Program	February 15	<a href="https://applyonline.cqu.edu.au/faces/views/startAdmissionApp.xhtml">https://applyonline.cqu.edu.au/faces/views/startAdmissionApp.xhtml</a>
Apply for cross-institutional studies	UQ: February QUT: Jan 23	<a href="https://www.sinet.uq.edu.au/">https://www.sinet.uq.edu.au/</a> <a href="http://www.studentservices.qut.edu.au/enrol/individual/cross/other.jsp">http://www.studentservices.qut.edu.au/enrol/individual/cross/other.jsp</a>
Last day to enrol in a CQU course Term 1	March 14	<a href="https://e-rolment.cqu.edu.au/erolment/index.htm?NC=798191808">https://e-rolment.cqu.edu.au/erolment/index.htm?NC=798191808</a>
Last day to withdraw from a course without academic or financial penalty	March 31	<a href="https://e-rolment.cqu.edu.au/erolment/index.htm?NC=798191808">https://e-rolment.cqu.edu.au/erolment/index.htm?NC=798191808</a>
	Term 2 Deadlines	
Mid-Year admission to CQU and the Program	June 6	<a href="https://applyonline.cqu.edu.au/faces/views/startAdmissionApp.xhtml">https://applyonline.cqu.edu.au/faces/views/startAdmissionApp.xhtml</a>
Apply for cross-institutional studies	UQ: June QUT: May 30*	<a href="https://www.sinet.uq.edu.au/">https://www.sinet.uq.edu.au/</a> <a href="http://www.studentservices.qut.edu.au/enrol/individual/cross/other.jsp">http://www.studentservices.qut.edu.au/enrol/individual/cross/other.jsp</a>
Last day to enrol in a CQU course Term 2	July 18	<a href="https://e-rolment.cqu.edu.au/erolment/index.htm?NC=798191808">https://e-rolment.cqu.edu.au/erolment/index.htm?NC=798191808</a>
Last day to withdraw from a course without academic or financial penalty	July 29	<a href="https://e-rolment.cqu.edu.au/erolment/index.htm?NC=798191808">https://e-rolment.cqu.edu.au/erolment/index.htm?NC=798191808</a>

## The University of Queensland

Process	Term 1 Deadline	How
Admission to UQ and the Program	January 31 (applications accepted after this date may attract a \$50 late fee)	<a href="http://www.uq.edu.au/myadvisor/forms-online">www.uq.edu.au/myadvisor/forms-online</a>
Last day to enrol	February 8	<a href="https://www.sinet.uq.edu.au/">https://www.sinet.uq.edu.au/</a>
Last day to add a course to student load in Term 1	March 7	<a href="https://www.sinet.uq.edu.au/">https://www.sinet.uq.edu.au/</a>
Apply for cross-institutional studies	CQU: Jan 31 QUT: Jan 23	<a href="http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=5578">http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=5578</a> <a href="http://www.studentservices.qut.edu.au/enrol/individual/cross/other.jsp">http://www.studentservices.qut.edu.au/enrol/individual/cross/other.jsp</a>
Apply for non-award enrolment if you have not yet completed one course at UQ	CQU: Jan 31 QUT: Jan 23	<a href="http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=8540">http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=8540</a> <a href="http://www.studentservices.qut.edu.au/enrol/individual/visit.jsp">http://www.studentservices.qut.edu.au/enrol/individual/visit.jsp</a>
Last day to withdraw from a course without financial penalty	March 31	<a href="https://www.sinet.uq.edu.au/">https://www.sinet.uq.edu.au/</a>
Last day to withdraw from a course without academic penalty	April 30	<a href="https://www.sinet.uq.edu.au/">https://www.sinet.uq.edu.au/</a>
	<b>Term 2 Deadline</b>	
Mid-Year admission to UQ and the Program	June 30 (applications accepted after this date may attract a \$50 late fee)	<a href="http://www.uq.edu.au/myadvisor/forms-online">www.uq.edu.au/myadvisor/forms-online</a>
Last day to enrol in Term 2	July 11	<a href="https://www.sinet.uq.edu.au/">https://www.sinet.uq.edu.au/</a>
Apply for cross-institutional study	CQU: June 1 QUT: May 30*	<a href="http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=5578">http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=5578</a> <a href="http://www.studentservices.qut.edu.au/enrol/individual/cross/other.jsp">http://www.studentservices.qut.edu.au/enrol/individual/cross/other.jsp</a>
Apply for non-award enrolment if you have not yet completed one course at UQ	CQU: June 1 QUT: May 30*	<a href="http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=8540">http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=8540</a> <a href="http://www.studentservices.qut.edu.au/enrol/individual/visit.jsp">http://www.studentservices.qut.edu.au/enrol/individual/visit.jsp</a>
Last day to add a course to student load in Term 2	August 1	<a href="https://www.sinet.uq.edu.au/">https://www.sinet.uq.edu.au/</a>
Last day to withdraw from a course without financial penalty	August 31	<a href="https://www.sinet.uq.edu.au/">https://www.sinet.uq.edu.au/</a>
Last day to withdraw from a course without academic penalty	September 30	<a href="https://www.sinet.uq.edu.au/">https://www.sinet.uq.edu.au/</a>

## Queensland University of Technology

Process	Term 1 Deadline	How
Admission to QUT and the Program	January 23 (applications accepted after this date may attract a \$50 late fee)	<a href="http://www.bee.qut.edu.au/study/cpe/powergeneration.jsp">http://www.bee.qut.edu.au/study/cpe/powergeneration.jsp</a>
Last day to add a course to student load in Term 1	March 7	<a href="https://qutvirtual.qut.edu.au">https://qutvirtual.qut.edu.au</a>
Apply for cross-institutional studies	QUT info: CQU: Jan 31 UQ: February	<a href="http://www.studentservices.qut.edu.au/enrol/individual/cross/qut.jsp">http://www.studentservices.qut.edu.au/enrol/individual/cross/qut.jsp</a> <a href="http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=5578">http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=5578</a> <a href="https://www.sinet.uq.edu.au/">https://www.sinet.uq.edu.au/</a>
Apply for non-award enrolment if you have not yet completed one course at QUT	CQU: June 1 UQ: June	<a href="http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=8540">http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=8540</a> <a href="http://www.epsa.uq.edu.au/index.html?page=8315">http://www.epsa.uq.edu.au/index.html?page=8315</a>
Last day to withdraw from a course without academic or financial penalty	March 31	<a href="https://qutvirtual.qut.edu.au">https://qutvirtual.qut.edu.au</a>
	Term 2 Deadline	How
Mid-Year admission to QUT and the Program	June 18 (applications accepted after this date may attract a \$50 late fee)	<a href="http://www.bee.qut.edu.au/study/cpe/powergeneration.jsp">http://www.bee.qut.edu.au/study/cpe/powergeneration.jsp</a>
Last day to add a course to student load in Term 2	August 1	<a href="https://qutvirtual.qut.edu.au">https://qutvirtual.qut.edu.au</a>
Apply for cross-institutional study	QUT info: CQU: June 1 UQ: June	<a href="http://www.studentservices.qut.edu.au/enrol/individual/cross/qut.jsp">http://www.studentservices.qut.edu.au/enrol/individual/cross/qut.jsp</a> <a href="http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=5578">http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=5578</a> <a href="https://www.sinet.uq.edu.au/">https://www.sinet.uq.edu.au/</a>
Apply for non-award enrolment if you have not yet completed one course at QUT	CQU: June 1 UQ: June	<a href="http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=8540">http://facultysite.cqu.edu.au/FCWViewer/getFile.do?id=8540</a> <a href="http://www.epsa.uq.edu.au/index.html?page=8315">http://www.epsa.uq.edu.au/index.html?page=8315</a>
Last day to withdraw from a course without academic or financial penalty	August 1	<a href="https://qutvirtual.qut.edu.au">https://qutvirtual.qut.edu.au</a>

## Glossary

### **Program:**

Qualification: Master of Engineering

### **Course:**

Individual subject: e.g. EPNG21001 Asset Management Systems

Please note that at QUT, the course is normally referred to as a “unit”, and the program as a “course”.

### **Credit towards your program at:**

#### ***CQU***

- Advanced standing: Acknowledgement granted for courses completed at UQ or QUT towards the ME (Power Generation) at CQU;

#### ***QUT***

- Advanced standing: Acknowledgement granted for courses completed at UQ or CQU towards the MEng (Power Generation) at QUT;

#### ***UQ***

- Advanced standing: Acknowledgement granted for courses completed at QUT or CQU towards the ME (Power Generation) at UQ;

### **Non-award Enrolment:**

Enables enrolment in individual course/s as a ‘visitor’; this acknowledges that you are not currently in a formal program at any university.

### **Cross-institutional Enrolment:**

Enables enrolment in individual course/s at another university; this acknowledges that you are enrolled in a program (e.g. ME) at another university.

#### ***CQU***

If you would like to graduate with a CQU qualification, you should apply for entry to Master of Power Generation before you commence your studies at CQU or another university.

Any course you take that is not delivered at CQU will require you to fill in a Cross Institutional Study form. You can enter CQU’s Master of Power Generation program and take the first course at UQ or QUT.

#### ***QUT***

If you would like to graduate with a QUT qualification, you should apply for entry to MEng (Power Generation) before you commence your studies at QUT or another university.

Any course you take that is not delivered at QUT will require you to fill in a Cross Institutional Study form. You can enter QUT’s MEng (Power Generation) program and take the first course at UQ or CQU.

#### ***UQ***

If you would like to graduate with a UQ qualification, you will need to apply for entry to ME/Grad Cert (Power Generation) when you do your first course with UQ.

Once enrolled, any course you take that is not delivered at UQ will require you to fill in a Cross Institutional Study form.

However, if your first course is at CQU or QUT, you will need to enrol there as a non-award student. When you are ready to take a UQ course, you will need to apply to the ME/Grad Cert program and for credit for completed non-UQ courses.

### **Enrolment:**

You are required to enrol in your course/s by the University’s due date for the relevant semester. These are listed above tables for each university.

## Payment options

### **FEE-HELP**

This is a Federal Government student loan scheme for eligible domestic full-fee paying students who are personally responsible for the payment of their fees. Students who access this option of payment will need to call the Australian Taxation Office 13 2869 to access their invoice and to make payments.

### **Up front payments**

Students who pay for their studies up front will need to arrange payment with their home university and cross-institutional university. These payments are tax deductible.

### **Payments by employers on behalf of students**

#### ***CQU***

Students will receive an invoice which will provide them with payment options.

#### ***QUT***

Students will need to complete an Employer Sponsorship form. The employer will then receive an invoice which will provide them with payment options. QUT-enrolled students will not be eligible to pay their own fees or receive FEE-HELP.

#### ***UQ***

UQ can set up a “third party contract” with companies who sponsor more than two staff in UQ Power Generation Courses in a given semester. A third party contract will enable UQ to invoice the company directly for course fees.

## Contact Details

### **CQU**

T: (07) 4923 2284

E: [industrylinks@cqu.edu.au](mailto:industrylinks@cqu.edu.au)

W: [www.cqu.edu.au](http://www.cqu.edu.au)

### **QUT**

T: (07) 3138 1632

E: [bee.enquiries@qut.edu.au](mailto:bee.enquiries@qut.edu.au)

Website: [www.qut.edu.au](http://www.qut.edu.au)

### **UQ**

Mrs Siu Bit Iball

T: (07) 3346 8723

F: (07) 3365 9770

E: [s.iball@uq.edu.au](mailto:s.iball@uq.edu.au)

W: [www.uq.edu.au](http://www.uq.edu.au)