



**GLOBAL
DEVELOPMENT
COLLEGE**

RTO:46191

HELPING YOU TAKE CHARGE OF

YOUR FUTURE

INFORMATION PACK

**FOR MEM80125: GRADUATE
DIPLOMA OF ENGINEERING**

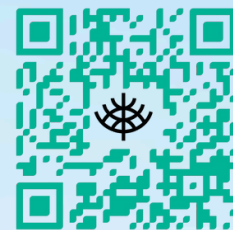
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WWW.GDC.EDU.AU**

Australian
Qualifications
Framework



**GLOBAL
DEVELOPMENT
COLLEGE**

Graduate Diploma of Engineering



Gain real-world skills and capabilities that will set you apart.

About the program

Developed and Delivered by highly qualified and experienced Engineering, Infrastructure, Asset Management leaders and Project Management experts, you will gain real-world skills and capabilities that will set you apart. This program will build upon your expertise and provide high-level specialist engineering and project management skills and will assist you in your role as a paraprofessional, technical specialist or technical leader. You will learn how to lead in engineering-related operations

across various industries and disciplines. The Vocational Graduate Diploma of Engineering qualification satisfies the requirements for employment as a Principal Technical Officer under relevant awards and agreements. The course can provide an articulation pathway to professional qualifications and provides the skills and knowledge for people wishing to obtain Engineering recognition.

Some of the skills you could develop in this program include

- Project Planning and Management
- Research and Development
- Product Development
- Engineering-related Design
- Engineering leadership, Management
- Other Engineering-related Technical and Operations Roles

Individuals must seek further information on the relationship of this qualification to the Principal Technical Officer classification and should seek advice from their relevant industrial organisation and or professional accreditation bodies in their relevant countries.

This qualification is ideal for those seeking to or currently working as:

- Engineers without Washington Accord qualifications
- Qualified Engineers
- Engineering, Infrastructure and Asset Management
- Experienced Technicians, Technical Officers, or Landing hands
- Experienced Tradespeople
- Project Management Managers and Workers

MEM80125 Graduate Diploma of Engineering

Entry Requirements

- An Advanced Diploma of Engineering or a Diploma of Engineering, or
- A relevant Certificate IV or Certificate III together with significant relevant vocational practice in an engineering related role, or
- A Bachelor Degree; or other higher education qualification, with relevant vocational practice in an engineering related role.

Mode of Delivery

- Online (Self Paced)
- Distance (Self Paced)
- Face-to-Face at Workplace

Packing Rules

A total of 10 units of competency comprising

- all three (3) core units of competency and
- a minimum of four (4) units from Group A and
- the balance of units may be chosen from Group A or Group B to bring the total number of elective units to seven (7).

A maximum of three (3) elective units may be chosen from any other Graduate Certificate or Graduate Diploma qualification where they are relevant to work in a high-level engineering supervisory technician and technical officer environment within metal, engineering, manufacturing and associated industries and do not duplicate skills and knowledge already available in units within this qualification.

**Note: All units listed on training.gov.au*

AQF Qualifications/ Levels

LEVEL	CERTIFICATE
AQF LEVEL 10	DOCTORAL DEGREE
AQF LEVEL 9	MASTER'S DEGREE
AQF LEVEL 8	GRADUATE DIPLOMA OF ENGINEERING
AQF LEVEL 7	BACHELOR'S DEGREE, UNDERGRADUATE CERTIFICATE
AQF LEVEL 6	ADVANCED DIPLOMA
AQF LEVEL 5	DIPLOMA

MEM80122 Graduate Diploma of Engineering: Units

S.No	Unit	Type
1.	MEM234002 Integrate engineering technologies	Core
2.	MEM234035 Maintain and apply technical and engineering skills	Core
3.	MSMENV672 Develop workplace policy and procedures for environmental sustainability	Core
4.	BSBINS603 Initiate and lead applied research	GDC Core
5.	MEM234001 Plan and manage engineering-related projects or operations	Elective
6.	MEM234012 Design integrated maintenance management systems	Elective
7.	MEM234021 Apply statistics to technology problems	Elective
8.	MEM234026 Develop and coordinate engineering-related contingency plans	Elective
9.	BSBHRM615 Contribute to the development of diversity and inclusion strategies	Elective
10.	PUAECL002 Lead and manage programs that develop resilience	Elective

MEM80122 Graduate Diploma of Engineering:

Core Units Synopsis

MEM234002 Integrate Engineering Technologies

Elevate your engineering expertise with this dynamic unit. Designed for Principal Technical Officers and engineering professionals, you will gain the skills and knowledge to seamlessly integrate technologies, processes, components, or equipment for complex engineering projects or operations. Master the balance of sustainability, work health and safety (WHS), and regulatory requirements while applying scientific principles, mathematics, and advanced tools like CAD, system analysis, and modelling. Perfect for those with experience in materials, manufacturing, and risk management, this course empowers you to drive innovative, efficient, and compliant engineering solutions.

MEM234035 Maintain and Apply Technical and Engineering Skills

Advance your career as a Principal Technical Officer or engineering professional by mastering the skills to plan, manage, and excel in your technical role. This unit develops high-level analytical, communication, and systems thinking abilities essential for navigating complex engineering and manufacturing environments. Learn to apply and refine the technical expertise gained from other Graduate Diploma of Engineering units, while driving innovation, efficiency, and organisational growth. Ideal for those in supervisory, project management, or specialist technical positions, this course empowers you to strategically manage your professional development and deliver impactful engineering solutions.

MSMENV672 Develop Workplace Policy and Procedures for Environmental Sustainability

Lead the way in building a greener future with this essential unit for supervisors, managers, and team leaders. Gain the expertise to design, implement, and refine workplace sustainability policies that meet evolving environmental standards and organisational needs. Learn to engage stakeholders, monitor sustainability performance, and drive continuous improvement across diverse sectors—from manufacturing and warehousing to office operations. Whether working independently or as part of a team, this course equips you to champion sustainable practices that reduce environmental impact, strengthen compliance, and enhance long-term organisational resilience.

GDC Core Unit Synopsis

BSBINS603 Initiate and Lead Applied Research

This unit develops the expertise needed to design and conduct applied research that drives innovation, informs strategic decision-making, and enhances organisational performance. Students will gain a comprehensive understanding of research strategies, methods, and methodologies, learning to apply both qualitative and quantitative approaches through techniques such as experimental design, surveys, and statistical analysis. Emphasis is placed on planning, conducting, and presenting research that addresses real-world challenges, generates evidence-based insights, and delivers measurable impact.

Through activities including literature reviews and independent research projects, participants will refine their ability to investigate opportunities and risks, develop practical solutions, and influence strategic practices across diverse sectors. Designed for managers and leaders, the unit equips graduates to harness research as a tool for shaping policy, guiding teams, and advancing performance within industries such as engineering and beyond.



MEM80122 Graduate Diploma of Engineering:

Elective Units Synopsis- Group A

MEM234026 Develop and Coordinate Engineering-related Contingency Plans

Strengthen organisational resilience by mastering the skills to design and implement contingency plans for complex engineering projects and operations. This unit guides you through systematic analysis to identify potential risks and non-conformances, and prepares you to develop effective response strategies that ensure continuity and recovery. Build expertise in business planning, project scheduling, communication, and team coordination while integrating contingency planning into day-to-day engineering operations. Ideal for professionals in manufacturing and engineering, this course empowers you to minimise disruption, safeguard resources, and maintain quality and compliance in the face of unexpected challenges.



MEM234001 Plan and Manage Engineering-related Projects or Operations

Strengthen your ability to lead complex engineering projects and operations with confidence. This unit equips you with the skills to plan, establish, and manage advanced engineering systems and resources across diverse industries such as manufacturing, defence, transport, health, logistics, and utilities. Develop expertise in project planning, scheduling, business strategy, and quality management while mastering both technical and leadership responsibilities. With a focus on communication, teamwork, and problem-solving, this course prepares you to take on high-level project or operations management roles that demand precision, innovation, and strategic decision-making.

MEM234012 Design Integrated Maintenance Management Systems

Build the expertise to design advanced maintenance systems that maximise plant performance and align with business and engineering objectives. This unit develops your ability to create integrated processes that improve reliability, maintainability, and overall utilisation of engineering assets. Learn to apply data-driven approaches, quality principles, and continuous improvement techniques while exploring strategies such as lean manufacturing, reliability-centred maintenance (RCM), and total productive maintenance (TPM). With opportunities to work on reverse engineering, rectification, and design modifications, this course is ideal for maintenance personnel, system designers, and engineering professionals seeking to optimise operations, reduce risks, and drive sustainable productivity across manufacturing and engineering environments.



MEM234021 Apply Statistics to Technology Problems

Harness the power of advanced statistics to solve complex engineering and technology challenges. This unit equips you with the skills to apply probability distributions, correlation, inference, and significance testing to real-world problems in engineering and manufacturing. Learn to perform both manual calculations and advanced data analysis using statistical software, building confidence in applying statistical methods to optimise processes, improve quality, and support decision-making. Designed for technologists and paraprofessionals, this course strengthens your analytical toolkit and prepares you to tackle technical problems with precision, innovation, and evidence-based solutions.

MEM80122 Graduate Diploma of Engineering:

Elective Units Synopsis- Others



BSBHRM615 Contribute to the Development of Diversity and Inclusion Strategies

Champion workplace equity and innovation by contributing to effective diversity and inclusion strategies. This unit equips you with the skills to develop objectives, design actionable strategies, and evaluate trends that shape an inclusive workforce. Learn how to align organisational goals with workforce planning, ensuring equal access to training, employment, and promotion opportunities for all. Ideal for professionals seeking to strengthen organisational culture and performance, this course empowers you to create workplaces that value difference, foster collaboration, and leverage diversity as a driver of growth and adaptability.

PUAECL002 Lead and Manage Programs that Develop Resilience

Equip yourself with the leadership skills to guide communities and organisations through adversity and disruption. This unit develops your ability to design, implement, and manage resilience-building programs that prepare people and systems to respond effectively to crises. Learn to navigate uncertainty, make ethical decisions under pressure, and foster collaboration across diverse groups and stakeholders. Applicable to public, private, and non-government sectors, this course is ideal for professionals seeking to strengthen organisational resilience, build community partnerships, and lead with confidence in dynamic, high-stakes environments.