



**Smart Nation**

Staff Training & Development



Phone: 1300 307 908

Fax: 1300 308 046

Email: [enquiry@smartnation.com.au](mailto:enquiry@smartnation.com.au)

## Diploma of Engineering – Technical Fact Sheet

*Students undertaking this qualification will be engaged in the following work areas*

- *production planning, including scheduling,*
- *works study estimating materials,*
- *handling systems,*
- *design and drafting including Computer Aided Drafting(CAD) & Design,*
- *inspection,*
- *quality control,*
- *design and development work (prototypes, models, specifications) in both product and process areas.*

*In partnership with the leading TAFE Institute for Trade and Technician training, is able to offer an attractive package to people seeking Diplomas and Advanced Diplomas in Engineering, utilising Queensland State Government funding to subsidise course costs.*

**The training can be done flexibly at:**

- *a work site,*
- *through distance education,*
- *online or*
- *in continuous enrolment tutorials held at Murarrie, Eagle Farm or Acacia Ridge classrooms.*

### **MEM50205**

Total Units 21

### **Core Units**

#### **Communication**

MEM16006A Organise and communicate information

MEM16008A Interact with computing technology

#### **Engineering technician**

MEM30007A Select common engineering materials

MEM30012A Apply mathematical techniques in a manufacturing engineering or related environment

### **Stream Units**

#### **Engineering technician**

MEM30001A Use computer aided drafting systems to produce basic engineering drawings

MEM30002A Produce basic engineering graphics



**Smart Nation** The Staff Training and Development Professionals

Phone: 1300 307 908

Fax: 1300 308 046

Email: [enquiry@smartnation.com.au](mailto:enquiry@smartnation.com.au)

MEM30003A Produce detailed engineering drawings  
MEM30004A Use CAD to create and display 3D models  
MEM30005A Calculate force systems within simple beam structures  
MEM30006A Calculate stresses in simple structures  
MEM30008A Apply basic economic and ergonomic concepts to evaluate engineering applications  
MEM30009A Contribute to the design of basic mechanical systems  
MEM120024A Perform Computations

## **SPECIALISATION UNITS**

### **Drawing, drafting & design**

MEM09005B Perform basic engineering detail drafting  
MEM09141A Represent mechanical engineering designs  
MEM120025B Use graphical techniques and perform simple statistical computations

### **Innovation**

BSBINN301A Promote innovation in a team environment

### **IT Use**

BSBITU203A Communicate electronically

### **Frontline Management**

BSBFLM306C Provide workplace information and resourcing plans  
BSBFLM309C Support continuous improvement systems and processes  
BSBFLM311C Support a workplace learning environment

### **Management**

BSBMGT404A Lead and facilitate off-site staff

### **Project Management**

BSBPMG510A Manage projects

### **Risk Management**

BSBRSK401A Identify risk and apply risk management processes

**Contact us to find out more on 1300 307 908 or [paddy@smarnation.com.au](mailto:paddy@smarnation.com.au)**

**Ask for Paddy Warfield**



**Smart Nation** The Staff Training and Development Professionals

Phone: 1300 307 908 Fax: 1300 308 046 Email: [enquiry@smarnation.com.au](mailto:enquiry@smarnation.com.au)