

## ENGINEERING

# WORKPLACE INTERACTION

## PROFESSIONAL & PERSONAL COMPETENCY DEVELOPMENT

Students who have gained experience in the workforce and can demonstrate how this experience has contributed to the development of **Engineers Australia Stage 1 Competencies and Elements of Competency** – specifically **Section 3: PROFESSIONAL AND PERSONAL ATTRIBUTES** – may submit a request for hours towards Band 2 (*Extra-Curricular Activities*) in the UniSA STEM Professional Practice Program (*maximum of 80 hours*).

**This experience may be undertaken in a place of employment that is not related to the student's area of study.**

Complete the form below, submit it via email to [STEM.Placements@unisa.edu.au](mailto:STEM.Placements@unisa.edu.au) for assessment by the Course Coordinator. You will be notified of the outcome of this assessment.

Please direct any questions to the UniSA STEM Industry Experience team on +61 (08) 8302 5900 or via email [STEM.Placements@unisa.edu.au](mailto:STEM.Placements@unisa.edu.au)

### STUDENT DETAILS

Student ID number: \_\_\_\_\_ Title: \_\_\_\_\_ e.g. Mr / Mrs / Miss / Ms / Dr

Given name/s: \_\_\_\_\_ Family name: \_\_\_\_\_

Full name of program: \_\_\_\_\_ e.g. Bachelor of Engineering (Honours) (Mechanical) Program code: \_\_\_\_\_

### WORKPLACE

*\*If more than one workplace, please complete an additional form for each organisation*

Organisation name: \_\_\_\_\_

Address of organisation: \_\_\_\_\_

Length of time the student has worked at the workplace (*in years & months*): \_\_\_\_\_

Name of supervisor: \_\_\_\_\_ Supervisors position title: \_\_\_\_\_

Contact email: \_\_\_\_\_ Contact phone number: \_\_\_\_\_

### WORKPLACE CERTIFICATION OF HOURS AND COMPETENCY DEVELOPMENT

UniSA Engineering degrees are professionally accredited by Engineers Australia (EA). When entering the engineering practice, practitioners must be able to demonstrate attainment of the EA Stage 1 competencies and elements of competency. The purpose of recognising Workplace Interaction is to help contribute to the student's development of these competencies. Further information can be found on the [EA website](#).

I, \_\_\_\_\_, confirm that \_\_\_\_\_, has  
(Workplace Supervisor name) (Student name)

been employed for approximately \_\_\_\_\_ years/months which equates to approximately \_\_\_\_\_ hours of work in this organisation. This work experience has enabled him/her to develop personal and professional competencies in line with the EA Stage 1 Competencies (*outlined overleaf*).

I agree that this submission is an accurate reflection.

Signed: \_\_\_\_\_  
(Workplace Supervisor)

### STUDENT DECLARATION

*I declare that this is an accurate account of my Workplace Interaction and I confirm that the work contained in this reflection is my own, except where acknowledgement of sources is made.*

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

## COMPETENCY DEVELOPMENT REFLECTION

Refer to: **Engineers Australia Stage 1 Competencies, Section 3: PROFESSIONAL AND PERSONAL ATTRIBUTES** table on page 3.  
(Competency 3.3. Creative, innovative and pro-active demeanour has been removed from the reflection as the competency requires interactions within an engineering environment).

Please complete a reflection (approx. 100-150 words for each competency) using an example from your work experience to demonstrate how that competency has been attained.

Please respond to each section by addressing the points below:

- Describe an experience that allowed you to develop this competency
- What were the tasks that you performed?
- What did you learn that was most valuable from this experience?
- How will you apply the skills you have developed for this competency in the future?

### 3.1. Ethical conduct and professional accountability.

3.1

### 3.2. Effective oral and written communication in professional and lay domains.

3.2

### 3.4. Professional use and management of information.

3.4

### 3.5. Orderly management of self, and professional conduct.

3.5

### 3.6. Effective team membership and team leadership.

3.6

**TABLE 1 – ENGINEERS AUSTRALIA STAGE 1 COMPETENCIES**

The UniSA Engineering degrees are professionally accredited by Engineers Australia (EA). When entering the engineering practice, practitioners must be able to demonstrate the Stage 1 competencies and elements of competency. The UNISA STEM Professional Practice Program is designed to contribute to the development of these competencies.

KNOWLEDGE AND SKILL BASE	ENGINEERING APPLICATION ABILITY	PROFESSIONAL AND PERSONAL ATTRIBUTES
<b>1.1. Comprehensive, theory-based understanding</b> of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline.	<b>2.1. Application</b> of established engineering methods to complex engineering problem solving.	<b>3.1. Ethical</b> conduct and professional accountability.
<b>1.2. Conceptual understanding</b> of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the engineering discipline.	<b>2.2. Fluent application</b> of engineering techniques, tools and resources.	<b>3.2. Effective</b> oral and written communication in professional and lay domains.
<b>1.3. In-depth understanding</b> of specialist bodies of knowledge within the engineering discipline.	<b>2.3. Application</b> of systematic engineering synthesis and design processes.	<b>3.3. Creative</b> , innovative and pro-active demeanour.
<b>1.4. Discernment</b> of knowledge development and research directions within the engineering discipline.	<b>2.4. Application</b> of systematic approaches to the conduct and management of engineering projects.	<b>3.4. Professional</b> use and management of information.
<b>1.5. Knowledge</b> of engineering design practice and contextual factors impacting the engineering discipline.	For more information visit the <a href="#">EA website</a>	<b>3.5. Orderly</b> management of self, and professional conduct.
<b>1.6. Understanding</b> of the scope, principles, norms, accountabilities and bounds of sustainable engineering practice in the specific discipline.		<b>3.6. Effective</b> team membership and team leadership.

#### UNIVERSITY STAFF USE ONLY – University staff to complete

Course Coordinator name: \_\_\_\_\_ Signature: \_\_\_\_\_

Approved: ☐ Yes ☐ No No. of hours (max 80 hours): \_\_\_\_\_

Comments: \_\_\_\_\_

Please forward this completed form to the UniSA STEM Industry Experience team via email [STEM.Placements@unisa.edu.au](mailto:STEM.Placements@unisa.edu.au) for processing.