PROFESSIONAL EXPERIENCE REQUIREMENTS

ENGG454

SUBJECT OUTLINE + GUIDELINES
2017:
STUDENTS & SUPERVISORS
PROFESSIONAL EXPERIENCE REQUIREMENTS

INTRODUCTION

As a requirement for the award of the degree of Bachelor of Engineering, full-time candidates are required to obtain at least twelve weeks of approved professional experience. It is preferable that candidates undertake work experience during the summer recess. Students should enrol in ENGG454 for the session immediately after completing 12 weeks of professional experience.

Exemption from the Professional Experience requirement will be given to students who have passed one or more of the Professional Option subjects.

Note: If a student is unable to obtain twelve weeks continuous employment, a number of shorter periods (totalling at least 12 weeks) is acceptable. In this case one report covering all periods is required.

ENQUIRIES

All enquiries must be directed to the appropriate professional experience coordinator, whose name will be posted on the appropriate discipline notice board.

OBJECTIVES

The objectives of undertaking this experience is to:-

• Expose the student to an industrial/technical environment in order to appreciate the various activities associated with engineering in industry;
• Allow the student to observe and undertake tasks in practical aspects of investigation, design and construction of engineering works as a complement to theoretical studies;
• Instil confidence in the student to take up positions that require responsibility, motivation, decision making and communication with other people in the market place; and
• Facilitate recognition of the degree by professional bodies such as the Institution of Engineers, Australia.

EMPLOYMENT

It is the student's own responsibility to make every possible effort to obtain vacation employment by contacting various industries and companies, or by making applications in response to advertisements that appear in the news media or on Discipline or Faculty of Engineering and Information Sciences Notice Boards. Students are advised to seek vacation employment well in advance of recess periods.

APPLICATION FOR APPROVAL

It is a requirement that such employment be approved on the attached "Application for Approval of Professional Experience" form by the professional experience coordinator well in advance of taking up the employment. Students may undertake approved vacation employment in another country, if they have the opportunity to do so.

EEO ONLINE

Students are required to complete EEO (Equal Employment Opportunity) module online http://eoonlinev2.uow.edu.au/login.aspx. An acknowledgement of completion is to be printed and included in the final report.
TRAINING

Students are advised to plan a program of training with the help and consent of a senior engineer of the organisation who should be a corporate member of the Institution of Engineers Australia, or equivalent, and who will act as a supervisor. The name and address of this supervisor will be included on the Approval form. If necessary, this supervisor will be contacted by the relevant Discipline to ascertain the progress of the student. Students must keep a weekly diary of various activities of the Professional Experience done over 12 weeks.

REPORT

At the completion of the training, the student is required to produce and submit an engineering report. This report must be processed on A4 size sheets, around 4,000 words in length (word count on title page). You must produce a title page which includes your name, company name, supervisor/s name and project title, length of time you spent on the project. Illustrations and relevant photographs, computer programs and drawings may be added as an appendix to the main report. It is stressed that the report should be technical in nature and any relevant technical information must conform to SI Units.

The following information must be included in the Report:

• **Title Page** – providing student’s name, student ID number, project name, word count and Professional Experience Coordinator’s name;

• **The Grading Sheet.**

• **Application for Approval form** - detailing the organisation where the student worked, the position held, name and position of supervisor and period of employment;

• Description and duration of work on the project(s), significant aspects of the student’s activity on the project(s) assigned by the work supervisor and the contribution of the student (provide evidence where possible);

• Student's personal evaluation of the organisation and the work force;

• Critical evaluation and comments by the student on the usefulness of the training and its relevance to university education;

• Safety and environmental procedures adhered to within the industry.

• Weekly diary of activities prepared in the duration of professional experience. The preferred location of this diary is in the Appendix of the PE Report. (Please note, this diary does not replace the 4000 word description/discussion of the professional experience in the PE Report)

APPROVAL OF REPORT BY INDUSTRY SUPERVISOR

A copy of the Report must be submitted to the work supervisor for comment. It is a requirement that the employer complete a "Certificate of Service" (attached), which indicates the period of employment of the student and acknowledges that the report prepared by the student has been received and that it is a true representation of the activities undertaken. The employer will also be asked to rate the student according to technical ability, cooperation and general attitude.

This "Certificate of Service" (original copy) is to be attached to the back of the report submitted to the appropriate Discipline. This report is to be presented for any period of professional experience which is to be credited towards the
student's 12 week requirement, e.g. if a student spends six weeks with one employer in one year and a further six weeks with another the next year, a report covering each period should be presented for approval to the appropriate industry supervisor. The approved reports should then be combined for the final presentation.

ASSESSMENT AND DUE DATES FOR SUBMISSION

Reports will be examined critically to evaluate the student's input and the results of the experience. Assessment will be made on the basis of the content, presentation and employer's report. Unsatisfactory reports may result in the student being required to repeat the industrial training for 12 weeks and the submission of an additional report, or the submission of an amended report. Reports are to be submitted to the appropriate professional experience coordinator, via the EIS Central, before 5.00pm on the Friday of week five, of the session immediately following the period of employment. Extension of submission date will be given only under exceptional circumstances and provided the student has obtained the consent of the coordinator prior to the required submission date. The coordinator may distribute reports to an appropriate academic for assessment. The coordinator will keep a record of submitted reports. The result (satisfactory or unsatisfactory) will then be recorded by the coordinator on SMP.

WORK EXPERIENCE LIABILITY COVER

Attention is drawn to the link for work experience placement application for Public Liability. Please refer to this for details of coverage.
Professional Experience Flowchart

Start

Have Notice to Employer signed by PE Coordinator

Search for PE employment

Have approval form signed by your employer

Have approval form and Departmental Authorisation (insurance cover) signed by PE Coordinator

Complete EEO Online

Complete 12 weeks of PE

Enrol in ENGG454

Submit report

Check EIS/SMP for feedback

Make necessary corrections

Is report satisfactory?

No

Yes

PE Completed
DISTRIBUTION OF FORMS

WHAT STUDENTS NEED TO DO

“Notice to Employer”

This form, when required by the employer, is to be completed and signed by the Discipline Coordinator and presented to the Employer upon completion.

“Application for Approval”

This form is to be completed, signed and submitted to the Discipline Professional Experience Coordinator who will authorise it and return it to the student to be included with the report.

“Employer’s Report – Certificate of Service”

This form is to be attached to the report as well at the grading sheet and submitted to the Discipline Coordinator,

“Student External Work Placement Application/Insurance Form”

This form is to be completed by the student (only if not being paid for work), signed off by the discipline professional experience coordinator and submitted to EIS Central for processing. EIS Central will then forward this document to Financial Services. The form can be located at http://www.uow.edu.au/services/finance/studentplacement/index.html

You need to ENROL in ENGG 454 Professional Experience and choose the appropriate instance i.e. autumn or spring.
This page has been left intentionally blank.
Professional Experience Requirement
for Engineering Students

To Whom it May Concern

Re: Name:

As a requirement for graduation, full-time engineering students are required to obtain at least twelve weeks of approved professional experience. This letter indicates that ____________________
is currently enrolled in the degree of Bachelor of Engineering in ____________________
and is in the ________________________ year of his/her course.

Yours sincerely,

Discipline Coordinator
This page has been left intentionally blank.
Application for Approval of Professional Experience

Professional Experience Requirement for Engineering Students

Discipline: ___________________ Engineering

Name: ___________________ Student ID Number: ______________

Degree Course: ___________________

Name and Address of Employer: ___________________

Name of Industry Supervisor: ___________________

Professional Qualifications: ___________________

Position: ___________________ Contact Phone No: ______________

Type of Experience Expected: ___________________

Period of Employment: From: ___________ To: ___________ Weeks: ___________

Signature of Student: ___________________ Date: ______________

Approved on behalf of Employer (Supervisor) Approved on behalf of Discipline (Coordinator)

_____________________________ ______________________________

Date: ___________________ Date: ___________________
This page has been left intentionally blank.
Employer's Report - Certificate of Service

Professional Experience Requirement for Engineering Students

Student Name: ___________________________ Student ID Number: ________________

Employer: _______________________________________________________________________

Address: ________________________________________________________________________

Supervisor: _______________________________________________________________________

Qualifications: ___________________________________________________________________

Contact Phone No: _______________________

Employer's Rating
(Please tick the appropriate box)

<table>
<thead>
<tr>
<th>Excellent</th>
<th>Average</th>
<th>Poor</th>
</tr>
</thead>
</table>

Technical Ability: __________________________________________________________________

Initiative: ________________________________________________________________________

Cooperation: ______________________________________________________________________

Standard of Work: __________________________________________________________________

Conduct: __________________________________________________________________________

Comments: (In particular, is the report an accurate description of work undertaken?)
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________

Signed on behalf of the organisation by

Name: ___________________________________________________________________________

Position: _________________________________________________________________________

Signature: _______________________________________________________________________

Date: ___________________________________________________________________________
This page has been left intentionally blank.
## Professional Experience Grading Sheet for University Markers

(Industrial Experience for Full-Time Students)

( INCLUDED □ NOT INCLUDED)

<table>
<thead>
<tr>
<th>Name:</th>
<th>Student No:</th>
</tr>
</thead>
</table>

| Title Page: | Employer □ Position Held □ Period of Employment □ No of weeks □ |
| Supervisor □ Position Held □ Name □ Phone □ |
| FAX □ Comments: |

**Major activities of the organisation:**

**Details of experience areas:**

For each project/activity undertaken provide comments as follows:

- What was undertaken? What did you learn from this? How does it correlate with your University work?

**Length (4000 words):**

**Word Count on Front Page**

**Certification by Supervisor:**

**Content:** Satisfactory/Unsatisfactory

**Presentation:** Satisfactory/Unsatisfactory

**Result:** Satisfactory/Unsatisfactory-Resubmit/Unsatisfactory-Repeat

**Marker:**

**Date:** / /

*Please return the completed grading sheet to the Professional Experience Coordinator*
This page has been left intentionally blank.