

TRAINING NEEDS ANALYSIS (TNA) FORM

INSTRUCTIONS

WHAT IS THE RESEARCH TRAINING NEEDS ANALYSIS FORM FOR?

The Training Needs Analysis (TNA) form is a tool for managing, reflecting on and helping to promote Higher Degree by Research skills development.

WHO SHOULD USE IT?

- This [Training Needs Analysis \(TNA\)](#) form should be completed by all Higher Degree by Research students with their supervisors (1) in the first few months of the candidature, and (2) annually thereafter, preferably at the time of each Annual Progress Review.
- A new TNA form is required each year.

INSTRUCTIONS FOR USE

- Save this form to your computer, where you can then complete it electronically. No signatures are required. Please use the following naming convention: ***StudentID_TNA_year.pdf*** (for example: *123456789_TNA_2013.pdf*).
 - Students and supervisors should use the form to structure a discussion about your goals for coming year. This discussion should reflect on your current capacities, and identify and record any new skills and training required to successfully achieve the goals agreed over the next 12 months
 - Students should email a copy of the completed form to your supervisor and faculty office.
 - Students and supervisors should refer to the completed form at your next Progress Review.
- We welcome feedback from students and supervisors about the TNA:

STUDENT DETAILS

Student ID

FAMILY NAME: _____ GIVEN NAME: _____ Name of Supervisor: _____

Discipline/ School (in which student is enrolled): _____

Date this TNA form was completed (dd/mm/yyyy): _____ / _____ / _____

GENERAL COMPETENCIES	
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<p>1. PROFESSIONAL CONDUCT, including time management, project management, team work, research integrity, ethical and legal issues.</p> <p><i>Discuss your research project with your Supervisor and agree your goals for coming year. Reflect on your current capacities and identify and record any new skills and training required to successfully achieve the goals agreed over the next 12 months.</i></p> <p>See appendix 1.for examples and available training.</p>			<p>Priority: L = Low; M = Medium; H = High; n/r = Not Required</p>	<p>Completed: Y = Yes; N = No</p>
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2. COMMUNICATIONS, written and oral presentations for technical and non-technical audiences.

Discuss your research project with your Supervisor(s) and agree your goals for coming year. Reflect on your current capacities and identify and record any new skills and training required to successfully achieve the goals agreed over the next 12 months.

See appendix 1.for examples and available training.

Priority: L = Low; M = Medium; H = High; n/r = Not Required

Available/Competed: Y = Yes; N = No

[illegible]

3. INFORMATION & INFORMATION TECHNOLOGIES, includes spreadsheets and database, information literacy, specialist software <i>Discuss your research project with your Supervisor(s) and agree your goals for coming year. Reflect on your current capacities and identify and record any new skills and training required to successfully achieve the goals agreed over the next 12 months.</i> See appendix 1.for examples and available training.			Priority: L = Low; M = Medium; H = High; n/r = Not Required	Available/Completed: Y = Yes; N = No
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<p>4. RESEARCH DESIGN, includes sampling, research data planning, formulating questions, philosophical rationale.</p> <p><i>Discuss your research project with your Supervisor(s) and agree your goals for coming year. Reflect on your current capacities and identify and record any new skills and training required to successfully achieve the goals agreed over the next 12 months.</i></p> <p>See appendix 1.for examples and available training. Priority: L = Low; M = Medium; H = High; n/r = Not Required Available/Competed: Y = Yes; N = No</p>		
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[illegible]

5. INTERDISCIPLINARY PERSPECTIVES. How you understand the broader context for your research.

Discuss your research project with your Supervisor(s) and agree your goals for coming year. Reflect on your current capacities and identify and record any new skills and training required to successfully achieve the goals agreed over the next 12 months.

See appendix 1.for examples and available training.

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<p>6. DATA COLLECTION AND ANALYSIS, including statistics, quantitative and qualitative methods, and research data management.</p> <p><i>Discuss your research project with your Supervisor(s) and agree your goals for coming year. Reflect on your current capacities and identify and record any new skills and training required to successfully achieve the goals agreed over the next 12 months.</i></p> <p>See appendix 1.for examples and available training. Priority: L = Low; M = Medium; H = High; n/r = Not Required Available/Completed: Y = Yes; N = No</p>		
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7. CAREER DEVELOPMENT, including career management, entrepreneurship, innovation, commercialization, industry perspectives and networking.

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Competence	Priority for Development				Development Needs	Agreed Opportunities	Available		Completed	
	L	M	H	n/r			Y	N	Y	N
Other needs?										

AGREEMENT

We have met and discussed these research training needs and have agreed on the training activities and action items set out in this document:

STUDENT NAME: _____

DATE: (dd/mm/yyyy) _____ / _____ / _____

SUPERVISOR NAME: _____

DATE: (dd/mm/yyyy) _____ / _____ / _____

Student and supervisor each to keep a copy. Please email a copy to your Faculty Office.

Feedback

APPENDIX 1.

1. PROFESSIONAL CONDUCT, including time management, project management, team work, research integrity, ethical and legal issues.

For Research Integrity, this could include the following:

- [Responsible Research Practice on-line module](#)
- Human Ethics for Arts and Humanities on line module (under development – researchers from relevant faculties will be required to complete this module when available)
- Introduction to animal research course (held twice a year, mandatory for researchers who will be working with animals)
- Reading and understanding:
 - the *University of Sydney, [Research Code of Conduct 2013](#)*
 - the [National Statement on Ethical Conduct on Human Research 2007](#), and
 - the [Australian code for the care and use of animals for scientific purposes](#)
- Reviewing the University's webpages for:
 - [Research Integrity](#)
 - [Human Ethics and Animal Ethics](#); and
 - [Safety, Health and Wellbeing](#)
- Biosafety training course (half day – registration via [OHS website](#))
- Workers Health and Safety on-line module (under development - you will be required to complete this module when available)

Post research employment skills development opportunities might include:

- Project Management workshops or award courses
- Opportunities to work with others
- Learning Centre, resources include:
 - [Postgraduate Program](#) available twice per year
 - Workshops: Procrastination and managing time, Overview of a Thesis

2. COMMUNICATIONS, written and oral presentations for technical and non-technical audiences.

This could include the following:

- Departmental presentations
- Media training
- 3 Minute Thesis competition
- Conference Presentation
- [Principles and Practice of University Teaching](#)
- [An introduction to teaching](#) (for sessional staff)
- [Learning Centre](#), resources include:
 - On-line resources
 - [Planning or writing a thesis](#)
 - [Writing up research](#)
 - Writing a research proposal
 - [Postgraduate Program](#) available twice per year
 - Workshops: Preparing a thesis proposal, Writing a Literature Review, Critical reading of a research article, Oral presentation skills for postgraduates, Pronunciation skills

3. INFORMATION TECHNOLOGY, includes, spreadsheets and database, information literacy, specialist software

4. RESEARCH DESIGN, includes sampling, data planning, formulating questions, philosophical rationale.

Such training could include:

- Departmental seminars, short courses or award courses in experimental design.

5. INTERDISCIPLINARY PERSPECTIVES. How you understand the broader context for your research.

Training in interdisciplinary perspectives could include:

- Attendance at cross- faculty or cross-institutional seminars and student exchange experiences
- [Sydney Ideas](#) talks

6. DATA COLLECTION AND ANALYSIS, including statistics, quantitative and qualitative methods, and research data management.

Training might include:

Reading and understanding:

- the [Research Support, Research Data Management Guidelines](#)
- the [University of Sydney, Research Data Management Policy 2014](#), and
- Reviewing the [Research Data Management Planning Checklist](#)

Research Data Store: http://staff.ask.sydney.edu.au/app/answers/detail/a_id/524/kw/data/related/1

Electronic Laboratory Notebook (ELN) Pilot is at http://sydney.edu.au/research_support/lab-notebooks/index.shtml

7. CAREER DEVELOPMENT, includes career management, entrepreneurship, innovation, commercialisation, industry perspective and networking

Reflect on your employability skills and discuss with your supervisor the training you will need to improve career outcomes.

This might include:

- [Principles and Practice of University Teaching](#)
- [An introduction to teaching](#) (for sessional staff)
- Commercialisation of Intellectual Property or research products
- Industry engagement and internships
- Exchange opportunities and research collaborations
- [Careers Centre](#), resources include Career Advice, recruitment activities, and [Workshops](#) (program updated each semester) , such as:
 - Resume writing
 - Resume rescue
 - Cover Letters & Selection Criteria
 - Interview Skills
 - Practice your Interview Skills
 - Career counselling
- Job Search Skills [Learning Centre](#) , resources include:
 - Online [resources](#) (including writing resources)
 - [Postgraduate Program](#) available twice per year