

# Roof Safety Survey

## GENERAL INFORMATION

**CAMPUS:** Wollongong Campus  
**BUILDING:** I.T. Resource Centre (17)  
**DESCRIPTION:** Concrete roof surrounded by handrail and parapets. 2 x large pyramid shaped glass skylights. Plant and services located away from building's edge. Trip Hazards on Roof Area from pipework, air-conditioning services, electrical trays and steps. Negligible risk of falling if worker stays within handrail.

**RISK ASSESSMENT # :** UOW 01557  
**ROOF ACCESS:** Access from Stairwell building 16 &/or 17 / Multistorey Carpark- Service vehicles can park on Level J of Multi-storey Carpark. Note : Height of access door from Carpark is only 1500mm (Low clearance sign posted)

Access from Building 11 via ladder from eastern end

**SIGNAGE:** RF Hazard Area Beyond this Point; Danger - No Access to Roof without a Buildings and Grounds Roof Access UOW Permit to work; Caution - Trip Hazard

**COMPLIANCE PLATES:** Not Applicable - No fall restraint system

**SAFE WORK AREA:** Within handrailed and marked painted areas

**ROOFING SYSTEM:** NA

**HEIGHT OF BUILDING:** 3 storey

**PITCH:** Flat

**ROOF CONSTRUCTION:** Concrete

**STRUCTURAL INTEGRITY:** Uneven surfaces. Sound structure

**VEGETATION:** Nil

**ADJOINING ROOFES:** Library (16), University Function Centre (11), Multi-storey Carpark (P1)

**SERVICES:**

Gutters	Yes
A/C Units	Yes
Exhaust Fans	Yes
Ducts	Yes
Roof Ventilators	Yes
Fume Cupboards	No
Telco Towers	2

Satellite Dishes	1
Antenna	Yes
Skylights Domes	No
Glass Skylights	2
Pipework	Yes
Cooling Tower	Yes

**EXISTING SAFETY ITEMS:**

Horizontal Lifelines	No
Anchor Points	No
Vertical Lifelines	No

Handrail	Yes	600 mm
Walkway	No	
Parapets	Yes	300 - 450 mm

**WORK ACTIVITY DETAILS:**

Clean Gutters / Routine Mainter	Yes
Service A/C Plant	Yes
Cooling Tower Maintenance	Yes

**Frequency**

Every 3 Months
Monthly
Monthly

Note: Before commencing any work obtain Roof Permit from Facilities Management Division

# Roof Safety Survey

## RISK ASSESSMENT

Risk Assessment / Task Location

**BUILDING 17**

**Note:** The hazards identified do not include hazards that related to specific work tasks. These should be identified in the Safe Work Method Statement (SWMS) of the contractor.

Hazard Identification		Risk Assessment & Control Measures		Risk Control
What is the Activity/Service Item	What are the potential Hazards	What is the Risk Level	List any Control Measures already Implemented	Describe what can be done to eliminate risk or reduce the harm
Access From Bldg 17 Stairwell/Multi Storey Car park	Low Headroom	Medium	Signage - Low Headroom	Warning Low Headroom
Access From Bldg 16 Stairwell	Negligible risk	Negligible	Fire Stair Access	Negligible risk
Access Concrete Roof within Handrail Area	Trip Hazards on Roof Area from pipework, air-conditioning services, electrical trays and steps. Negligible risk of falling if worker stays within handrail	Medium	Caution when crossing services, small section of Stairs	Additional Signage and demarcation
Access to plantroom Roof	Falls from climbing. While on roof there is no protection from fall.	Medium	None	Ensure SWMS developed is followed by Contractors
Access to Roof	Unauthorised access	Medium	All access points to roof are locked and made secure so are not accessible by unauthorised persons; signage	Risk Assessment and Roof Safety Survey
General - Working on Roof	Contractors rubbish	Medium	Maintenance	Continuing Maintenance/cleaning
Antenna Maintenance	RF hazard	High	Refer to RF website: <a href="http://www.rfnsa.com.au/nsa/index.cgi">www.rfnsa.com.au/nsa/index.cgi</a>	Adequate signage required and demarcation
Working around Pyramid Skylights	Fall/Cut and Death	High	None	Signage Barricading
A/C Maintenance	Refer to SWMS of contractor	Medium	Currently not near a roof edge	Ensure SWP developed is followed by Contractors
Cleaning of Drains on Concrete Roof	Negligible risk	Low	Handrail Provided	Negligible risk
Cleaning of Gutters on Concrete Roof	Trip Hazard & Falling	Medium	Handrail Provided	Negligible risk
Maintenance of Telco Towers	Refer to SWMS of Telco	Medium	The Telco Contractors have their own controls	Telco Responsibility
Antenna Maintenance	RF hazard	High	Refer to RF website: <a href="http://www.rfnsa.com.au/nsa/index.cgi">www.rfnsa.com.au/nsa/index.cgi</a>	Adequate signage required and demarcation
General	Environmental Hazards - Spiders, Wasps, and other insects	Medium	Appropriate PPE and insect repellent and Pest control as required	On-going pest control measures
General	Weather Trips/Slips - Wet Roofs	Medium	If accessing concrete roof, be careful while walking over slippery surfaces	Only access roof in rain when necessary. Be careful working around slippery surfaces
General	Weather - Hot Conditions	Medium	Thermal Comfort Guidelines	Use sun cream, hats and remain hydrated and take appropriate breaks

## Reference Documentation

### Legislation

NSW Work Health and Safety Regulation 2011 Part 4.4 Falls  
Public Health (Microbial Control) Regulation 2000

### Australian Standards

AS 1657 - 2013 : Fixed platforms, walkways, stairways and ladders - Design, construction and installation  
AS 1891.1 - 2007 : Industrial fall-arrest systems and devices - Harnesses and ancillary equipment  
AS 1891.2 - 2001 : Industrial fall-arrest systems and devices - Horizontal lifeline and rail systems  
AS 1891.3 - 1997 : Industrial fall-arrest systems and devices - Fall-arrest devices  
AS 1891.4 - 2009 : Industrial fall-arrest systems and devices - Selection, use and maintenance  
AS 1892.5 - 2000 : Portable ladders - Selection, safe use and care  
AS 2210.1 - 2010 : Safety, protective and occupational footwear - Guide to selection, care and use  
AS 3666- 2011 : Air-handling & Water Systems for Buildings - Microbial Control  
AS 4994.1 - 2009 : Temporary edge protection - General requirements  
AS 4994.2 - 2009 : Temporary edge protection - Roof edge protection - Installation and dismantling  
AS 5532 - 2013 : Manufacturing requirements for single-point anchor device used for harness-based work at height

### Code of Practice

WorkCover - Safe Work on Roofs. Part 1 - Commercial and industrial buildings  
NSW Health Department Code of Practice for the Control of Legionnaires' Disease

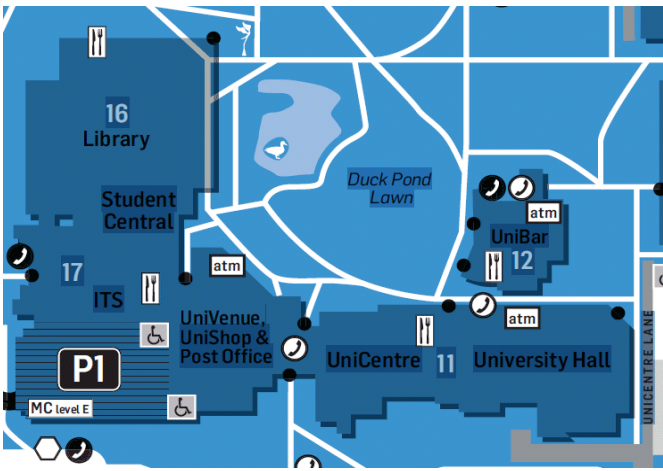
### UOW Documentation

Managing the Risk of Falls Guidelines  
Thermal Comfort Guidelines  
UOW Roof Access Permit  
UOW Roof Access Certificate

### Other

WorkCover - Safe Working at Heights Guide 2006  
MCF Fact Sheets - Working safely around Radiofrequency (RF) Transmitters  
Radio Frequency National Site Archive - <http://www.rfnsa.com.au/nsa/index.cgi>

# Building 17 Roof Safety Assessment



- A - location of roof access point
- L - location of Ladder

Building 17 Roof Safety Assessment



Telco Tower on Building 17 Roof - Northern side



Low access door from Level J multistorey car-park



A/C vents and skylights



View looking north



Telco Tower on Building 17 Roof - west



Telco Tower on Building 17 Roof - west

Building 17 Roof Safety Assessment



Cooling tower



Telco Tower on Building 17 Roof



A/C vents and skylights



View looking to South East corner



Ladder to access Building 11



A/C vents and skylights