



REQUIREMENTS FOR WORKING AT HEIGHTS AND RIGGING ON BROADCAST AUSTRALIA SITES

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1 Purpose and scope

BAI Communications (BAI) is committed to Work Health and Safety (WHS) in the workplace for all employees, contractors and visitors. This procedure details the Requirements for Working at Heights & Rigging and forms part of that commitment by prescribing the minimum qualifications, certifications and other requirements that must be met for the undertaking of a Climbing or Rigging activity on a Broadcast Australia (BA) owned or managed structure and/or on behalf of BA on a third party owned structure.

Working at Heights and Rigging are regarded as high-risk activities that require the completion of training and other qualifications as specified in this procedure.

BA is a BAI Communications company.

2 Definitions

The following words, acronyms and abbreviations are referred to in this document:

Term	Definition
BAI	BAI Communications
BA	Broadcast Australia
Working at heights	Working at heights is defined as anything that has a risk of falling associated with the task. In construction, any works conducted above two metres is considered high risk.
Rigging	Means the lifting, hoisting and/or fixing of equipment, plant or material onto a structure or removal thereof, including the installation and operation of plant necessary for such purpose. Further, this includes the exercising of direct control over the movement of equipment and associated gear necessary for the purpose of: (a) setting up or dismantling a crane or hoist, or similar plant configured for operation as a crane or hoist; or (b) placing or securing plant or a load relating to, and including the structural members of a structure; or (c) ensuring the stability of the structural members of a structure.
RTO	Registered Training Organisation through State or Federal Governments
Structure	Can be defined as any building, tower, mast or pole
VET	Vocational Education and Training Accreditation Act 1990

3 Document Control

Approval

The following table lists personnel who are responsible for authorising the document:

	Title	Name	Signature	Date
Approver	Antenna Infrastructure Manager	Grant Shapcott	<i>Maintained on file</i>	16/03/15
Approver	Structures Manager	Wesley Spark	<i>Maintained on file</i>	17/03/15
Approver	A/g GM HSEQ	Chris Grant	<i>Maintained on file</i>	17/03/15

Document History

The following table lists the changes made to this document:

Version	Date	Amended by	Comments
2.1	30/06/2014	Janie Maude	BAI format / update of medical requirements <40 years of age
2.2	14/07/2014	Grant Shapcott	Hazard process owner procedure review (Working at Heights)
2.3	17/10/2014	Wesley Sparks Tony Ballantyne	Hazard process owner procedure review (Rigging)
2.4	5/03/2015	Grant Shapcott Chris Grant	Review
2.5	9/03/2015	Lily Wong	Legal Review

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<http://intranet/HSEQ/Hazard%20Processes/Requirements%20Working%20at%20Heights%20and%20Rigging%20on%20Broadcast%20Australia%20Sites.pdf>

4 Requirements for Working at Heights only (no rigging involved)

The requirements pertaining to Working at Heights on any structure, including but not limited to broadcast and telecommunications structures, towers, masts, poles, or buildings for carrying out inspection and/or measurement only (applies where there is no rigging involved and no plant or equipment is being moved up or down the structure except for portable inspection, testing or measurement equipment) are as follows:

4.1 Training Requirements Overview

The minimum requirement to be certified as competent to Work at heights with BA includes the following:

Training Qualification	Qualification Requirement	Refresher Requirements
1. Working Safely at Heights	RIIWH5204D – Working Safely at Heights (or Equivalent)	N/A
2. Tower Rescue	PUASAR022A - Participate in a Rescue Operation (or Equivalent)	3 years
3. Height Workers Medical Assessment	Pass fit to climb	<ul style="list-style-type: none"> <40 years – 3 years 40 to 49 years – 2 years 50 years and older – 1 year

4.	RF EME Awareness Training	ACEBR accredited RF EME Awareness course	3 years
5.	Provide First Aid	HLTAID003 – Provide first aid HLTAID002 – Provide basic emergency life support HLTAID001 - Provide Cardiopulmonary Resuscitation	3 years
6.	Provide Cardiopulmonary Resuscitation (CPR)	HLTAID001 - Provide Cardiopulmonary Resuscitation	1 year*
7.	Construction White card	Details required for all states or relevant compliance	N/A

*Given the often remote as well as high-risk nature of working at heights, BA follows best practice in aligning its CPR and first aid refresher requirements to the [Model Code of Practice for First Aid in the Workplace](#).

Note: If RF Protection Suits are intended to be used on a BA site then suitable training in the use of such suits must be undertaken and a training certificate in the successful completion of such a course must be presented to BA for approval prior to site access been granted.

4.2 Working Safely at Heights

The applicant has completed a working safely at height course; this course should include identifying the work requirements, work procedures and instructions for the task; use of safety harnesses, fall arrest and other height safety equipment and accessing and installing safety equipment to undertake Work at heights. The applicable National competency-training module RIWHS204D - Working Safely at Heights should be referenced. Accredited Registered Training Organisations (RTOs) must deliver such a course or by a qualified Trainer with demonstrated training and Working at Height experience, that meets the approval of the BA subject matter expert in Working at Heights.

4.3 Tower Rescue

The applicant has completed a tower rescue-training course suitable for a single person rescue on a broadcast structure. A tower rescue refresher training course must be undertaken every three (3) years.* Such a course must be delivered by an accredited RTO or by a qualified Trainer with demonstrated training and Working at Height experience that meets the approval of the BA subject matter expert in Working at Heights.

*In the period between the three yearly training course, BA recommends (in line with the AS/NZ Standard 1891.4) that reassessment of tower rescue occurs annually to demonstrate an applicant's ongoing competency. Reassessments must be completed and documented by a competent person.

4.4 Height Workers Medical Assessment

All climbers must undergo and pass a medical assessment prior to undertaking any at height activity including Tower access, Tower rescue or Twin rope access training. This prescriptive medical examination will certify that the individual is fit to climb.

Medical examination age refresher requirement:

- every three (3) years for a climber less than 40 years of age;
- every two (2) years for a climber between the age of 40 and 49 years; and
- every twelve (12) months for a climber 50 years of age and above

Climbers that are pregnant are not permitted to access areas that exceed the public reference limits as defined in the ARPANSA RPS3 standard.

4.5 RF EME (Electromagnetic Emissions) Awareness Course

The applicant has completed an EME awareness course approved by BA. BA preferred suppliers of this training include:

- Kordia
- Radhaz consulting
- Total Radiation Solutions

EME refresher training must be undertaken every three (3) years. EME awareness training at a minimum must include EME theory, relevant standards, safe operating procedures, and the operation of Personal Monitoring Equipment. The undertaking of on-line EME induction training may be acceptable subject to satisfactory evidence being if the training has been undertaken by providing a certificate number or log number for audit purposes.

One personal radiation monitor must be available always in all climbing activities, the lead climber must check EME levels on the structure where the climbing or work is being undertaken before other climbers are permitted to climb, this personal radiation monitor must remain with the team on the structure to continually monitor EME levels in the area being worked in.

4.6 First Aid and CPR

All climbers must have completed an approved First Aid Training Course that covers:

- HLTAID001 – Provide cardiopulmonary resuscitation
- HLTAID002 – Provide basic emergency life support
- HLTAID003 – Provide first aid

Refresher first aid training must be undertaken every three (3) years.

Note: CPR refresher training **must be completed every 12 months** by an accredited organisation or trainer to keep HLTAID001 current, given the often remote as well as high-risk nature of working at heights, BA follows best practice in aligning its CPR and first aid refresher requirements to the [Model Code of Practice for First Aid in the Workplace](#).

4.7 Construction White Card

The applicant must hold a Construction Induction Card (Working Across Borders) White Card.

Note: A construction white card has no expiry though ceases to be current if the holder has not carried out construction work for a period of 2 or more years, in this circumstance the applicant is required to undergo retraining.

4.8 Industrial Rope Access

If Twin rope access is required to be undertaken on a BA site, then appropriate twin rope access training must have been undertaken by all persons undertaking the work. This work must be highlighted in the site access application and applicable evidence of training and experience of all persons involved must be submitted to BA.

5 Site Access Requirements

5.1 Site Access Work Permit

A Site Access Work Permit must be applied for and approved by BA prior to accessing site. Only works detailed on the site access application can be performed on site during the access dates. This work permit can be applied for through the site access page on the BA website.

5.2 Method of Procedures / SWMS

Copies of all Method of Procedure (MOP) statements and Safe Work Method Statement (SWMS) documentation must be provided to BA in accordance with BA's site access application and approval procedures. A copy of the MOP and SWMS are to be available on- site during site works.

5.3 Minimum On-site Team Requirement

A minimum of two (2) BA Working at Heights accredited personnel are to be present on-site at all times whilst working at heights activities are in progress; one of which is a competent site supervisor. The site supervisor is the primary point of contact and has responsibility for the coordination of the works and work health & safety requirements on site.

5.4 Tower Rescue Kit

A suitable Tower Rescue Kit that satisfies the access/rescue requirements of the team on site must be available on-site throughout the period of the climbing activity, this kit must be visibly obvious and available at ALL times during working at heights activities. This kit should include but is not limited to, suitable type and length of rope to perform Tower Rescue from and in most circumstances this must reach the ground from the working height, suitable descenders for the rope used, mechanical advantage lifting device (Trac Haul), slings, karabiners and any other equipment that may be deemed necessary to perform a man on man rescue un-assisted.

5.5 Climbing Equipment

All working at heights equipment including equipment within the rescue kits must meet Australian or equivalent European Standards. Where no such standard exists then the equipment must carry the UIAA endorsement. All equipment must be designed for the type of work it is been used for.

As per AS1891, climbing equipment must be inspected and results documented every six (6) months. SWMS for climbing works must also include daily pre-start inspections and post-work inspections of equipment to confirm its safe working condition.

5.6 First Aid Kits

A fully stocked and in date First Aid Kit must be on site during site works. This kit must satisfy relevant state WHS requirements and be visible and available for use in an emergency.

5.7 Communications

All personnel working at heights must have suitable communications equipment for the tasks been undertaken; this could include 2-way radios, whistles or mobile phones. Communication arrangements should be agreed to between all personnel prior to works commencing and referenced in the SWMS / toolbox meeting for the work.

If the site does not have an accessible landline available then a mobile phone must be available and usable in case of an emergency. If there is no mobile phone coverage available on site and no land line available, then a satellite phone should be taken to site and be available during all site works. Working at heights should not commence without sufficient communication arrangements in place.

5.8 WHS and Environment Issues

Any WHS or Environment issues that arise must be reported to BA immediately.

6 Requirements for Rigging

In addition to all of the above conditions that apply to Working at Heights only, the following additional requirements pertain to the undertaking of activities involving Rigging. A Rigger must have the experience, competency and hold the relevant high-risk licence (as outlined below) to carry out the task:

6.1 Rigging High Risk Work Licences

High Risk Work Licence	Definition	Licence Renewal period
Dogging (DG)	Consists of the application of slinging techniques to move a load (including the selection and inspection of lifting gear) and/or the directing of a crane/hoist operator in the movement of a load when the load is out of the view of the crane/hoist operator.	3 years
Basic Rigging (RB)	Rigging work involving any of the following: <ul style="list-style-type: none">• structural steel erection• hoists• pre cast concrete members of a structure• safety nets and static lines• mast climbing work platforms• perimeter safety screens and shutters, and• cantilevered crane loading platforms	3 years
Intermediate Rigging (RI)	Rigging work involving any of the following: <ul style="list-style-type: none">• hoists with jibs and self-climbing hoists• cranes, conveyors, dredges and excavators• tilt slabs• demolition of structures or plant; and• dual lifts	5 years
Advanced Rigging (RA)	Rigging work involving any of the following: <ul style="list-style-type: none">• gin poles and shear legs• flying foxes and cable ways• guyed derricks and structures, and• suspended scaffolds and fabricated hung scaffolds	5 years

6.2 Rigging Works

Any person undertaking rigging activities must be certified and hold a current High Risk Work Licence. The BAI Group reserves the right to refuse any climbing or rigging activities and/or works on BAI Group structures at its sole discretion.

No rigging work is to be completed alone or without a competent supervisor on site (as per 4.3). When rigging work is being performed at height, all abovementioned working at height requirements must be followed.

Only those rigging activities defined under the specific licence can be performed on site by that individual i.e. a basic rigger can assist an advanced or intermediate rigger but **only** in the basic rigging elements of the activity. A mix of riggers (basic, intermediate or advanced) can work on the same site at the same time **however** (as stated above) they can only be performing those rigging works in line with the restrictions of their licence.

A rigger can only perform higher-level (intermediate or advanced) rigging activities under supervision if enrolled with an RTO and performing the works as part of training in order to attain that higher-level licence.

7 Elevated Work Platform (EWP)

7.1 Elevated Work Platform General Requirements

EWPs are available in a wide variety of types and sizes. They include scissor lifts, cherry pickers, boom lifts and travel towers. There are battery powered and internal combustion engine types. Some are designed for hard flat surfaces only, while others are designed for operation on rough terrain. The below requirements will cover all of the various types of EWPs.

7.1.1 Requirements to Operate any EWP Mobile Plant on a BA Site

1. There must be at least two staff present on site when EWPs are operated (one of which is the nominated supervisor);
2. There must be at least two staff on site that hold a current Provide First Aid (or similar) certificate during EWP operation;
3. The supervisor must have a current RF Awareness Certificate;
4. Staff operating the EWP from the ground must have, either:
 - a. current RF Awareness Certificate; or
 - b. be under direct supervision of staff with a current RF Awareness;
5. All persons that enter the EWP (bucket/platform) are to be:
 - a. Approved on the BA Working at Heights database; or
 - b. Show evidence of competency in the use of a full body harness and use of a suitable EDD (Emergency Descent Device). If it is a requirement to wear a full body harness during use of the particular EWP type, (see below). A High Risk Licence in EWP operation would satisfy this requirement;
6. There must be a suitable Emergency Decent Device (EDD) in the EWP at all times where there is a requirement to wear a harness; and
7. All persons performing rigging works from a EWP must have the appropriate High Risk Work Licence in Rigging.

Operators working in travel towers or boom type elevating work platforms must wear an anchored safety harness in accordance with AS 2550.10. The harness system used must be able to arrest a fall before the user strikes the ground.

Persons operating EWP's must be properly trained in their operations and use. Where equipment is hired, the hire company should provide instructions initially and the employer as required, to ensure that persons operating the EWP are competent to do so.

People operating EWP's with boom lengths exceeding 11 metres must have a High Risk Licence for class 'Boom Elevated Work Platform [licence coding work platform (WP)]. It is a requirement that the design of a EWP be registered with a state or territory WHS Authority.

7.2 EWP Training Requirements

Training Qualification	Refresher Requirements
1. Elevated Work Platform <11 metres Competency verification	
2. Elevated Work Platform EWP > 11 metres High risk work licence coding WP	5 years

7.3 Elevated Work Platform <11 metres

Staff operating a EWP with a boom length less than 11m must show written verification of competency-Yellow card would suffice.

7.4 Elevated Work Platform >11 metres (WP)

Staff operating a EWP with a boom length of 11m or longer must hold a current High Risk Licence (HRL) in EWP use (coded as WP on the licence).

8 Notes to requirements

8.1 Supply of certificates to the Site Access Group

All certificates must be supplied using the online application system, which is available at www.broadcastaustralia.com.au. Certificates can be attached as scanned copies. In relation to the expiry date of Tower rescue certificates, the Standard requires refresher training at appropriate intervals. Broadcast Australia requires certificates of training with an RTO every 3 years.

8.2 Medical Certificates

A medical certificate certifying that the Working at Heights applicant is "Fit to Climb" should include:

- If there are any heart related conditions that may affect the applicant while Working at Heights;
- The applicant has appropriate physical fitness to climb and work at heights. If the applicant has any metal implants as this may cause an adverse EME effect on the applicant.

8.3 First Aid Kits

First aid kit requirements are to be assessed based on the risks of the site and works being undertaken and should comply with the Model Code of Practice - First Aid in the Workplace.

8.4 Australian Standards

As a minimum, the following Australian standards are to be complied with:

1. AS 1800 – Occupational Protective Helmets
2. AS1891.1 - Industrial fall-arrest systems and devices - Harnesses and ancillary equipment
3. AS 1891.4 – (2009) Industrial fall-arrest systems and devices - Selection, use and maintenance
4. AS 2319 – (2001) Rigging Screws and Turnbuckles
5. AS 2626 - (1983) Industrial Safety Belts and Harness selection, use and maintenance
6. AS 4488.2 – (1997) Industrial Rope Access Systems
7. DR 03469 – Industrial Fall arrest systems and devices harness and ancillary devices.