

PLANT AND EQUIPMENT

PURPOSE AND SCOPE

The intent of this document is to eliminate or minimise the risks of fatalities, injuries and incidents arising from mobile powered plant, static plant, and equipment at Gamuda Australia (GA) workplaces.

CRITICAL CONTROLS

- A Vehicle Movement Plan or equivalent is in place.
- Plant and people are physically separated, safe access for pedestrians is defined and exclusion zones are established and maintained.
- Plant is inspected prior to mobilisation and before use (See GA plant pre-use acceptance checklists).
- Diesel powered mobile plant with greater than 100kw engine power used during tunnel excavation shall be fitted with fire suppression systems which are to be inspected, checked, and tested in accordance with manufacturer's requirements.
- Plant operators are verified as trained and competent for the specific item of plant.
- Stability, ground bearing pressure and slab capacity are verified for plant set up and/or operation (Multiple plant loadings are considered).
- Overhead services and structures are identified with appropriate control measures implemented to prevent collision by mobile plant.
- All items of powered mobile plant must be hazard / risk assessed.
- Mobile plant is operated, maintained, and serviced as required in accordance with original equipment manufacturer (OEM).
- Mobile plant must not be modified outside of manufacturer's specifications unless that modification is engineered, certified, and approved by a competent person.
- Mobile plant must be fitted with warning devices including a flashing light and audible alarm.
- Operators must complete a pre-start and/or daily check to confirm safe working order.
- Effective communications must be maintained between mobile plant operators and those controlling ground operations.
- A SWMS must be in place for using and working in and around mobile plant.
- A spotter is in place where defined by risk assessment.

Note: The above controls are to be read in conjunction with the Regulations, Standards and Codes listed below.

VEHICLE MOVEMENT PLAN

A Vehicle Movement Plan (VMP) will be prepared for mobile plant and vehicle usage within the worksite covering all vehicle movements. The purpose of a vehicle movement plan is to detail the measures to be implemented for the safe management of mobile plant and vehicle movements within the project site (including but not limited to, fixed sites / temporary workshops / loading bays).

Risk factors to be considered when preparing and maintaining a vehicle movement plan.

- Separation of people and plant

- Vehicle routes and loading / unloading areas.
- Pedestrian routes
- Plant and vehicle movements (incl. Reversing)
- Delivery driver instructions
- Change management controls.

The following checklist, **GA-FRM-HSE-165 – Vehicle Movement Plan** can be used to facilitate the development and maintenance of VMPs at project / workplaces.

VERIFICATION OF COMPETENCY (VOC)

The minimum level of competency an operator shall hold for the operation of plant in hierarchical order as follows.

1. High-Risk Work Licence issued by a State or Territory under the National Certification System as per the legislation.

Where a High-Risk Work Licence is not required by legislation:

2. Licence or Certificate of Competency issued under previous State or Territory legislation for which there is no longer a High-Risk Work Licence required e.g., loadshifting equipment; or
3. Statement of Attainment or Certificate issued by a Registered Training Organisation (RTO) for the successful completion of the appropriate unit of competency in the Nationally Recognised Training (NRT) package.

A licence or qualification on its own is not proof of an operator's competence. In addition, operators must be assessed for competency (i.e., verification of competency (VOC)) prior to carrying out work that requires.

- A High-Risk Work licence;
- Operating any powered mobile plant;
- Operating other equipment as determined by risk assessment at the project or workplace;
- The Verification of Competency must be conducted by an external third-party assessor (i.e., Registered Training Organisation) with the appropriate qualifications (i.e., TAE40110 Certificate IV Training and assessing qualification) and skills (i.e., relevant High risk work licence); and,
- The Verification of Competency must be undertaken every 2 years.

REGULATIONS, STANDARDS AND CODES

- Work Health & Safety Regulation 2011 (QLD, ACT), 2012 (SA), 2017 (NSW, NT) and 2022 (WA); Chapter 5; Plant & Structures
- Occupational Health and Safety Regulations 2017; Part 3.5, Plant (VIC)
- Heavy Vehicle National Law & Heavy Vehicle National Regulation; check State or Territory versions enacted. [Road Traffic (Vehicles) Act in WA]
- SafeWork Australia Code of Practice Managing Risks of Plant in the Workplace
- SafeWork Australia Guide: Importing and supplying safe plant
- SafeWork Australia Guide: Manufacturing safe plant

INTEGRATED MANAGEMENT SYSTEM
CRITICAL RISK STANDARD
PLANT AND EQUIPMENT



- SafeWork Australia Guide: Safe design of plant
- Queensland Code of Practice Managing Risks of Plant in the Workplace
- NSW Code of Practice Managing Risks of Plant in the Workplace
- ACT Code of Practice Managing Risks of Plant in the Workplace
- West Australia Code of Practice Safeguarding of machinery and plant
- AS 4772: 2008 Earth-moving Machinery – Quick Hitches for Excavators and Backhoe Loaders.
- AS 2294.1 Earth-moving machinery – Protective structures - General
- AS 1674.2 Safety in welding and allied processes
- AS 60974.1 Arc welding equipment
- National Standard for Plant [NOHSC:1010 (1994)]

FORMS AND CHECKLISTS

- GA-FRM-HSE-118 Plant and Equipment Register
- GA-FRM-HSE-119 Plant Risk Assessment
- GA-FRM-HSE-120 Earthmoving Plant and Equipment – Pre-Use Acceptance Checklist
- GA-FRM-HSE-121 Earthmoving Equipment – Suspended Load and Lifting Approval
- GA-FRM-HSE-122 Elevated Work Platform – Pre-Use Acceptance Checklist
- GA-FRM-HSE-123 Mobile and Crawler Crane – Pre-Use Acceptance Checklist
- GA-FRM-HSE-124 Forklift and Telehandler – Pre-Use Acceptance Checklist
- GA-FRM-HSE-125 Concrete Pump – Pre-Use Acceptance Checklist
- GA-FRM-HSE-126 Static Plant and Equipment – Pre-Use Acceptance Checklist
- GA-FRM-HSE-127 General Mobile Plant – Pre-Use Acceptance Checklist
- GA-FRM-HSE-128 Piling Rig – Pre-Use Acceptance Checklist
- GA-FRM-HSE-129 Heavy Vehicle – Pre-Use Acceptance Checklist
- GA-FRM-HSE-156 Light Vehicle – Pre-Use Acceptance Checklist
- GA-FRM-HSE-165 Vehicle Movement Plan Checklist