



Australian Government

RIICFW304D Conduct pile driving operations

Release: 2

RIICFW304D Conduct pile driving operations

Modification History

Release	Comment
1	This unit replaces RIICFW304A Conduct pile driving operations
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to conduct pile driving operations in Civil Construction.

This unit is appropriate for those working in operational roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

Civil construction

Elements and Performance Criteria

1. Plan and prepare	1.1 Access, interpret and apply pile driving documentation and ensure the work activity is compliant 1.2 Obtain, interpret, clarify and confirm work instructions before proceeding 1.3 Confirm and apply environmental protection and safety requirements 1.4 Obtain, interpret and implement traffic management signage requirements 1.5 Select, and check for faults, plant, tools and equipment to carry out tasks 1.6 Select and wear correct personal protective equipment appropriate for work activities
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	1.7 Identify, address and report environmental issues, potential hazards and risks 1.8 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Locate pile positions and establish piling rig plant	2.1 Establish location for piles from reference points and set out 2.2 Establish plant and equipment in position and conduct pre-start checks 2.3 Prepare and check pile for conformity 2.4 Identify and protect area for pile driving
3. Drive pile	3.1 Manoeuvre pile into position using the piling rig 3.2 Set up piling rig and drive pile into place 3.3 Carry out splicing or jointing
4. Remove piling rig	4.1 Dismantle plant and equipment 4.2 Relocate piling rig in preparation for next piling installation
5. Clean up	5.1 Clear work area and dispose of or recycle materials 5.2 Clean, check, maintain and store plant, tools and equipment

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIICFW304A Conduct pile driving operations

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

Assessment Requirements for RIICFW304D Conduct pile driving operations

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Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies applicable legislation, documentation, policies and procedures
- works effectively with others to undertake and complete pile driving operations that meets all the required outcomes, including:
 - communicating clearly and concisely with others to receive and clarify work instructions
 - using a range of communication technique and systems such as signage to advise others of work activity and exclusion zones
- demonstrates completion of conducting pile driving operations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - conducting pre start-checks
 - identifying and protecting area for pile driving
 - driving a minimum of two (2) timber piles or two (2) pre-cast concrete piles
 - driving using at least one (1) of the three pile hammering methods
 - dismantling and relocating piling rig

Knowledge Evidence

The candidate must demonstrate knowledge of the following when conducting pile driving operations through:

- applying legislative, organisation and site requirements and procedures for:
 - site and equipment safety requirements

- foundation work
- construction principles
- water erosion
- project quality requirements
- civil construction terminology
- driving piles
- selecting and using relevant tools and equipment safely
- identifying and reporting hazards related to the worksite and work activity
- describing piles and their installation techniques
- describing scaffolding and work platform installation
- interpreting engineering drawings
- identifying soil, sand, rock, clay, shale, gravel and silt types and characteristics
- describing processes for installing piles in water
- identifying equipment types, characteristics, technical capabilities and limitations
- describing site isolation and traffic control responsibilities and authorities
- interpreting and complying with materials safety data sheets and materials handling methods
- preparing and/or implementing JSA/JSEA/safe work method statements

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit must be assessed in the context of this sector's work environment; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,
- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 Years
Other sectors	Where this Unit is being assessed outside of the Resources and Infrastructure Sectors assessor and/or Industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no Industry standard is specified should comply with any relevant regulation.	

*Assessors can demonstrate current work experience through employment within Industry in a role relevant to the outcomes of the Unit; or, for external assessors this can be demonstrated through exposure to Industry by conducting frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

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