



Australian Government

RIICFW306D Direct pile driving operations

Release: 2

RIICFW306D Direct pile driving operations

Modification History

Release	Comment
1	This unit replaces RIICFW306A Direct 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 direct pile driving operations in Civil Construction.

This unit is appropriate for those working in operational roles.

No licensing or certification requirements apply to this unit at the time of publication.

Unit Sector

Civil construction

Elements and Performance Criteria

1. Plan and prepare to assist with pile driving operations	1.1 Access, interpret and apply documentation to direct pile driving operations and ensure the work activity is compliant 1.2 Obtain, interpret, clarify and confirm work instructions and resolve coordination requirements before proceeding 1.3 Obtain platform certification 1.4 Confirm and apply environmental protection and safety requirements 1.5 Select and wear correct personal protective equipment appropriate for work activities 1.6 Obtain, interpret and implement traffic management signage requirements 1.7 Select and check for faults, plant, tools and equipment to carry out tasks
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	1.8 Identify, address and report environmental issues, potential hazards and risks 1.9 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Assisting with locating pile position and establishing the piling rig	2.1 Establish the location for piles from reference points and set out 2.2 Establish recovery pegs and conduct on-going measurements to ensure the correct location 2.3 Direct the establishment of plant and related equipment in position and conduct pre-start checks 2.4 Prepare and check pile for conformity with work instructions 2.5 Identify and protect area for pile driving and surrounding working space
3. Support the piling process	3.1 Provide guidance for lifting and manoeuvring of piles into position 3.2 Provide guidance for setting up piling rig and driving pile into place 3.3 Direct the splicing or jointing
4. Carryout post-operational requirements	4.1 Assist with dismantling of plant and related equipment 4.2 Provide direction for relocation of piling rig 4.3 Clear work area and dispose of or recycle materials 4.4 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

RIICFW306D Direct 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 RIICFW306D Direct 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 direct, undertake and complete pile driving operations tasks that meet all the required outcomes including:
 - communicating clearly and concisely with others to resolve coordination requirements and 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 directing pile driving operations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - establishing recovery pegs
 - identifying and protecting area for pile driving
 - providing guidance for lifting, manoeuvring and setting up of piling rigs
 - installing a minimum of two (2) timber piles or two pre-cast concrete piles
 - demonstrating at least one (1) of the three (3) pile hammering methods

Knowledge Evidence

he candidate must demonstrate knowledge directing pile driving operations through:

- applying organisation, site requirements and procedures for:
 - risk assessment and management

- statutory compliance
- work health and safety
- emergency procedures
- environmental protection
- off-set pegging
- pile locating
- plumbing and pile driving
- pile splicing and joining
- maintenance requirements
- environmentally sensitive fluids and materials disposal
- chemical and fuel safety
- hazardous goods handling
- isolation and traffic control responsibilities and authorities
- water erosion issues
- civil construction terminology
- foundation work
- project quality requirements
- work platform installation
- machine operation
- interpreting engineering drawings
- monitoring site personal protective equipment requirements
- implementing site and equipment health and safety procedures
- monitoring and responding to site environmental and heritage requirements and constraints
- interpreting and complying with safety data sheets and materials handling methods
- preparing and/or implementing safe work method statement and/or Job safety analysis
- identifying types and characteristics of soil, sand, rock, clay, shale, gravel and silt and water table
- describing machine characteristics, technical capability and limitations
- describing driven piles and their installation techniques
- describing techniques for installing piles in water
- requirements and procedures
- implementing and monitoring operational, maintenance and basic diagnostic procedures
- implementing isolation procedures

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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