



Australian Government

AHCLSC321 Install metal structures and features

Release: 1

AHCLSC321 Install metal structures and features

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 7.0.

Application

This unit of competency describes the skills and knowledge required to install metal structures and features as a component of landscape project works, including preparing for work, setting out site, preparing and cutting metal components, assembling and erecting structure, checking and cleaning up site.

The unit applies to individuals who install metal structures and features under broad direction, and take responsibility for their own work and for the quality of the work of others.

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

Pre-requisite Unit

Nil

Unit Sector

Landscape (LSC)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare work	1.1 Interpret site plans and specifications 1.2 Identify potential hazards and risks, and implement safe working practices to manage risks 1.3 Check quantity and quality of materials 1.4 Select tools and equipment required for installation work and check for serviceability

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Select, fit, use and maintain personal protective equipment (PPE) applicable to the task
2. Set out the site for the structure	2.1 Determine, locate and mark out services from site plan 2.2 Mark out position of structure or feature 2.3 Establish profiles to conform to nominated tolerances 2.4 Excavate and prepare footings according to type of structure to be erected
3. Prepare and cut metal components	3.1 Lay components out for assembly 3.2 Mark the length of components and positions of joins 3.3 Cut, check and join components in preparation for joining and assembly
4. Assemble and erect structure	4.1 Fix, join or assemble metal components into position and fix into place 4.2 Install remaining components and fix into position 4.3 Finish off structure to ensure all components are secure and complete 4.4 Apply coatings
5. Check quality of work and clean-up site	5.1 Inspect quality of finished works to ensure required standard has been achieved 5.2 Clean debris from structure and site 5.3 Dispose of or recycle waste material from site 5.4 Store unused metal components for future re-use 5.5 Clean, maintain and store tools and equipment 5.6 Identify and report unserviceable tools and equipment according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Oral communication	Use clear language and industry standard terminology to report tool and equipment unserviceability

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCLSC321 Install metal structures and features	AHCLSC308 Install metal structures and features	Minor changes to application Minor changes to performance criteria Foundation skills added Assessment requirements updated	Equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCLSC321 Install metal structures and features

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has installed metal structures or features on at least two occasions and has:

- interpreted site plans and specifications
- applied workplace health and safety requirements, including fitted and used personal protective equipment (PPE)
- estimated quantities
- selected, used and maintained tools and equipment required for installation of metal structures and features
- planned and prepared metal structures and features using site plans and specifications
- marked out a site for metal structures and features according to design drawings and specifications
- used surveying instruments
- established levels and prepare footings
- excavated footings
- measured and marked lengths of metal components
- used power tools efficiently and safely
- fixed, joined or assembled metal components
- applied surface finishes
- checked quality of work and cleaned up site
- reported unserviceable tools and equipment.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- principles and practices of installing metal structures and features, including:

- levelling principles and techniques
- footings for metal structures and their construction methods
- metal structure and component fixing, cutting, joining and assembly methods and hardware products
- use of hand and power tools relevant to metal structures and features
- surface finishes
- workplace requirements applicable to health and safety in the workplace for installation of metal structures and features, including appropriate use of PPE.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - a workplace setting or an environment that accurately represent workplace conditions
- resources, equipment and materials:
 - workplace procedures applicable to installing metal structures and features
 - materials, tools and equipment applicable to installing metal structures and features
 - PPE applicable to installing metal structures and features
- specifications:
 - workplace requirements applicable to health and safety in the workplace for installing metal structures and features
 - site plans, design drawings and specifications applicable to installing metal structures and features
- timeframes:
 - according to job requirements.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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