

Assessment Requirements for AHCPER317 Build with earth, straw and reclaimed materials

Release: 1

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Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- research building methods
- prepare for the building project
- build with earth, straw and/or reclaimed materials
- limit and re-use surplus and waste materials
- ensure the standard of the finished built structure is appropriate to the permaculture design

Knowledge Evidence

The candidate must demonstrate knowledge of:

- permaculture principles regarding structures and the built environment
- Building methods, such as
 - mud brick
 - straw bale
 - cobb & light earth
 - rammed earth (Pise)
 - wattle and daub
 - stabilised/compressed earth brick
 - earth ship
 - aerated concrete
 - compressed paper and timber fibres
 - wool brick
 - air dried timber
- structural issues
- planning issues

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- properties of materials and suitability of local soils and timbers for building uses
- environmental, logistical and safety factors, such as:
 - issues related to harvesting and milling of local timbers
 - possible contaminants in or on materials
 - · weight and size of materials and their transport to the site
- reclaimed materials, such as:
 - commercial timber off-cuts and wastes
 - demolition materials (timbers, windows and doors, plumbing fittings, roofing materials, bricks and other masonry items)
 - railway sleepers, telegraph poles, bridge timbers and other heavy reclaimed timbers
 - metal mesh and grill-work (fridge and oven shelves, wire baskets, fence panels, bed frames and bases, chicken wire, aviary mesh, pig/dog wire and other wire mesh products in small or large quantities)
 - · reinforcing mesh and rods, trench mesh
 - pallets and packaging crates
 - shipping containers, ex-transport carriages, old cars, trailers and caravans
 - mirrors
 - bottles (glass and plastic)
 - ceramics and flower pots
 - car & truck tyres, windscreens, panels and seats
 - machinery parts
 - drums and cans
 - palings and weatherboards
 - reclaimed concrete
- typical permaculture structures, such as
 - · garden structures and features
 - fences and trellising
 - animal housing and shelters
 - seating and garden walls
 - retaining walls and small dam walls (including observing all regulatory conditions)
 - sheds or small outbuildings (including observing all regulatory conditions)
 - components of houses or other buildings ((including observing all regulatory conditions and work with professionals on larger structures)
- the correct use of hand and power tools and other work health and safety requirements associated with installing structures and features
- techniques for working with reclaimed materials such as de-nailing, stripping old paint, dressing timber
- WHS considerations associated with recycled materials such as identification of lead paint, broken glass, rusty metal, chemically treated materials
- comparative environmental implications associated with excavation and construction activity

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- safe lifting and transporting techniques
- appropriate use of personal protective clothing and equipment (PPE)
- appropriate use and installation of safety signs and barriers
- site access points
- implication of alteration to water flow during and after construction

Assessment Conditions

Assessors must satisfy current standards for RTOs. Assessors must also hold a nationally accredited Certificate III (or higher) in Permaculture. Completion of a Permaculture Design Course (PDC) is not sufficient at this level.

Links

Companion Volume implementation guides are found in VETNet https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72

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