

ECVET Earth Building	Repair and conservation: Plaster and building	Unit R
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Learning outcomes		Level 5
KNOWLEDGE	SKILLS	
<ul style="list-style-type: none"> - Significance of historic building culture - Conservation of traditional earthen techniques and materials - Global diagnosis of earthen buildings - Major pathology with potential for collapse - Specific recommendations for surface maintenance, fixing - Cultural achievements of the workers in the field of earthen architecture - Socio-economic benefits versus financial costs - Resources (specialised literature, organisations, professional networks) - Innovation and development related to repair earth construction 	<p>Planning</p> <ul style="list-style-type: none"> - Observe and deduce the building composition, investigate and coordinate samples of earthen elements if necessary - Monitor (observe, analyse and report) the building state (external and internal water and humidity, damages, local environment...) - Assess the impact of changing external factors on the building (climate, vegetation, other constructions, ground level...) - Discuss different options for repair on a building's life cycle - Assess the stresses and transfer of forces applied on a structure and if necessary adapt the engineering design - Identify appropriate equipment, materials and workers needed for repair existing earthen structures - Calculate earth required for repair and maintenance - Analyse earth resources - Organise a specific waste management plan and re-use of earthen materials - Plan the sequence of works to ensure stability and protection of the earth structure and related elements - Provide specific recommendations for maintenance in the user manual for clients and other professionals <p>Coordination</p> <ul style="list-style-type: none"> - Coordinate urgent interventions - Organise the workforce and coordinate the team for optimum workflow in earth repairs, maintenance and surface treatments - Organise interventions by specialists in earthen construction where necessary - Liaise with and control various trades related earth repairs, maintenance and surface treatments - Modify program against earth related incidents <p>Controls</p> <ul style="list-style-type: none"> - Check if repairs are done in accordance with specification - Check that the repair process respects the historic and aesthetic aspects - Check that the workers know the limits of stability and that any temporary supports are maintained - Check the correct application of the site health & safety plan 	
COMPETENCE		
<ul style="list-style-type: none"> - Create confidence on site and underline the particular issues relating to earthen structures and repair through site inductions and training where necessary - Assist the engineer/architect in assessing existing earthen structures and secure the site: observe, report, calculate, recommend - Integrate special earth construction and repair issues into the general site managing tasks: order, planning works and budget, health and safety, controls, handing over - Manage the drying of the repairs - Understand the buildings construction and heritage significance 		

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Criteria and Indicators for the Assessment of Skills		Level 5
Criteria	Indicators	
Planning	<ul style="list-style-type: none"> - The defects and their causes are identified and described - The proposed repairs, materials and workforce are suitably planned - Risk areas are flagged or fenced and earth activities are included in the site health & safety plan 	
Coordination	<ul style="list-style-type: none"> - The earth building competence of the team is assessed and training needs identified - The workers are aware of the special needs of earth construction and understand the requirements of the earth repairs - The sequence of tasks are well programmed - The work plan and cost plan are up-dated in light of events - Options are evaluated and changes are reported to the client and architect/engineers - The repairs as they progress and any deviations from the plan are recorded 	
Controls	<ul style="list-style-type: none"> - The effects of possible changes on site are anticipated and contingency plans are in place - The works are as intended in design and quality, and any variation is coordinated - The heritage is respected - The site is managed safely: <ul style="list-style-type: none"> o Personal protection equipment is adapted to risks and is used according to safety instructions o Equipment is used according to safety instructions. o All protective safeguards are in place o Erection of ladders and scaffolding according to regulations 	

Ensure that standards of work and materials comply with relevant codes of practice and to current standards.