

ECVET Earth Building	Formwork	Unit F
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Learning outcomes	Level 7
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KNOWLEDGE	SKILLS
<ul style="list-style-type: none"> - Types of formwork, assembly, safety, storage, providers - Earth building technique and its specific needs in formwork - Selection criteria for formwork choices (cost, strength, weight, size, surface quality, etc.) - The visual and practical effect of different formwork faces, boards, sheet materials or mesh for example - The design and use of blockouts and other single use and repeated elements for openings, arches etc. - Appropriate finished face (insulated board, render etc) and the selection of formwork accordingly. - 	<p>Planning</p> <ul style="list-style-type: none"> - Establish the profile of specific formwork needed depending on the visual requirements of the designer and client - Liaison with the client to ensure the formwork selected produces the required effect, or what the effect will be. - Establish the profile of specific formwork needed depending on site organisation (storage area, lifting equipment/crane), earth technique, surface quality, etc. - Calculate impacts in time and money - Choose between buying or renting - Adapt the formwork system or plan for specific works - Communicate specific recommendations for use - Assess formwork choice related to the quality of construction required - When a wall is appropriate to use as a finished face and when not and the selection of formwork accordingly. <p>Coordination</p> <ul style="list-style-type: none"> - Design block-outs, openings, fixing points - Liaise with other design and build team members specific technical installations inside the formwork (electrical & other services, etc.) <p>Controls</p> <ul style="list-style-type: none"> - Check the look and quality of the formwork finish on the wall at test wall and work stages

COMPETENCE	Level 7
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<ul style="list-style-type: none"> - Specify the use of different formwork and its impact on design, finish, cost - Verify the quality of the formwork is appropriate - Make a preliminary design (dimensions), detect underlying errors in the plans, make changes if necessary - Use formwork creatively with blockouts for instance without causing excessive cost

ECVET Earth Building	Formwork Rammed earth and Cob	Unit F
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Criteria and Indicators for the Assessment of Skills		Level 7
Criteria	Indicators	
Planning	<ul style="list-style-type: none"> - The type of formwork is well selected - The design is suited to the job, agreed by the client - Procurement of materials is well organised - Earth formwork activities are included in the site health & safety plan 	
Coordination	<ul style="list-style-type: none"> - Equipment storage/maintenance area is well organised - The workers team understand the requirements of formwork according to the technique, (cob, light earth etc) - Liaison is ensured 	
Controls	<ul style="list-style-type: none"> - Agreed finish is achieved. - Remediation is discussed and agreed - Formwork position and stability conform to requirements - All technical installations, fixings, services are in place - The formwork 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.