

UNIT D Level 3

Interior design with clay plaster

Learning outcomes

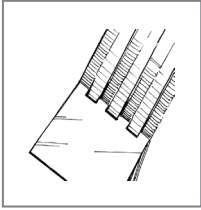
Criteria and indicators

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Revised edition: September 2015

First edition: Leonardo da Vinci Project, Lernpunkt Lehm 2007-2009





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Knowledge

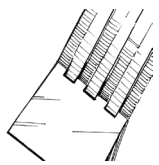
- Clay in design: cultural and historical diversity
- Design techniques of clay plaster using colour, texture, surface finish and thickness of the layer
- Composition of fine and coloured finish coats using own made clay plaster, manufactured mixes, clay or earth powders
- Colouring and texturing additives
- Suppliers of manufactured products
- The colours of earth
- Basic knowledge of colour theory: colour symbolism, colour ordering, colour contrasts, effects of colour
- Basic knowledge of interior design: surfaces and light, accents, subdivision of surfaces, colour balance
- Assessment and preparation of background
- Surface finishes and how to create them; sequencing of steps, tools and materials
- Joins between clay surfaces and joins with other materials
- Awareness of health and environmental issues in designing with clay plaster
- Preparation and application of fine and coloured finish coats:
 - Current legislative workplace requirements
 - Relevant codes of practice and current standards for quality of work and materials
 - Tools, machinery and equipment
 - The order of work
 - Safe and healthy working practices

Skills

- Create a design concept for the combination of two different surfaces in a room
- Prepare clay plasters for decoration varying the hue and lightness of the manufactured or own made plasters by either adding pigments or by mixing the plasters
- Make and compare sample boards and sample wall panels with own made and manufactured plasters
- Prepare the background
- Protect adjoining surfaces
- Sub-divide wall surfaces, make different plasters based on the sample boards, and apply them according to the design
- Make 2 different surface finishes and textures- floated, sponged, or with decorative surface structures
- Execute joins between clay surfaces and with other materials
- Calculate quantities, check supplies and prepare materials
- Select and use appropriate tools, machinery and equipment for the preparation and application of fine and coloured finish coats including the surface finish
- Organise the work place
- Comply with current legislation, official guidance and workplace safety requirements at all times

Competence

- Have an appreciation of the aesthetic and environmental impact of different plaster surfaces and finishes
- Describe the design concept making reference to contrast, colour balance and accents
- With the materials provided, plan and organise the preparation and application of several fine and coloured finish coats for usual and predictable building sites, according to the design brief
- Awareness of the value of experimental work in the personal creative process
- Control the transference of the design; control the accurate colouring and texturing of the plasters according to the design brief
- Work in accordance with the building schedule and with other trades, identify problems and record and report in accordance with occupational procedure
- Advise on design possibilities with clay plaster and on application techniques



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Criteria for the Evaluation of Skills

Criteria	Indicators
Completion of the design concept	<ul style="list-style-type: none"> The overall impression conforms to the design concept Colour, texture and surface structure conform to the design brief The wall surfaces are sub-divided according to the design brief
Quality of the plaster mix	<ul style="list-style-type: none"> The proportions to ensure a stable plaster without cracks are correct
Workability	<ul style="list-style-type: none"> The consistency is appropriate for the thickness of the layer and for the application technique The texturing additives are appropriate for the thickness of the layer and for the application technique
Recipe	<ul style="list-style-type: none"> Test samples are clearly marked with the proportions and ingredients The colouring and texturing additives are precisely measured The chosen recipe from the test results <ul style="list-style-type: none"> Is suitable for selected surface finishing technique is clearly written down and can be repeated The quantities of the different constituents have been calculated according to the recipe
Surface quality	<ul style="list-style-type: none"> The colour is homogenous The surface is homogeneous with regard to the surface finish
Quality of Detailing	<ul style="list-style-type: none"> The joints between clay plaster surfaces and other materials are neat and straight
Preparation	<ul style="list-style-type: none"> The materials are soaked for the appropriate time The materials are sized and sieved for the appropriate purpose The adjoining surfaces are protected If necessary the background has been cleaned, moistened and keyed
Sample Boards	<ul style="list-style-type: none"> Sample boards have an appropriate key for the sample plaster finish, are well executed and can be easily transported without damage

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

Criteria for the assessment of the method of work (criteria of skills evaluation)

Unit D	Method of Work	Level 3
SUB-CRITERIA	INDICATOR	
Organisation	The examinee is able to: <ul style="list-style-type: none"> locate and access tools, equipment and materials check the availability of building materials logically organise the work space and the order of tasks 	
Economy of materials and time	<ul style="list-style-type: none"> Optimum use of materials and time - no wastage 	
Use of tools and machines	<ul style="list-style-type: none"> Appropriate choice of tools and machines Machines used according to operating instructions Ergonomic handling and use of machines, tools, equipment and materials Skillful and careful handling and use of tools, machines, equipment and materials 	
Work place	<ul style="list-style-type: none"> Tools and material are set out logically for maximum efficiency Tools and machines are cleaned and returned tidily to their correct place Surplus materials are properly collected and stored 	
Time	<ul style="list-style-type: none"> The work is completed within the allocated time in accordance with the programme of work 	
Safety	Compliance with Construction site health & safety <ul style="list-style-type: none"> The equipment is appropriate for purpose and has been risk-assessed All Protective safeguards are in place Erection of ladders and scaffolding according to regulations 	
Waste	<ul style="list-style-type: none"> Waste is appropriately sorted, stored, recycled, removed and disposed of according to regulations 	
Communication	<ul style="list-style-type: none"> Problems during the working process or any deviation from the specifications are reported The finished work is described / explained orally Progress and the various stages of work are discussed with the work team Instructions that are not understood are questioned 	