Unit 323: Apply finishing plaster and tape and jointing systems to finish plasterboard surfaces

# Delivery guide

Unit information

This unit is about interpreting information and adopting safe, healthy and environmentally responsible work practices. It covers selecting and using materials, components, tools and equipment and preparing and applying finishing plaster, and tape and jointing compounds to finish plasterboard surfaces.

Learners may be introduced to this unit by asking themselves questions such as:

* What is tape and joint installation?
* Why is tape and jointing used?
* What type of plasterboard is designed for tape and joint installation?
* What materials are used when taping and jointing plasterboard?

Learning outcomes

1. Understand resource selection
2. Understand working to a contract specification
3. Comply with the given contract information to carry out the work safely and efficiently to the required specification

Suggested resources

Textbook

* Gashe, M., Byrne, K. (2020) *The City & Guilds Textbook: Plastering for Levels 1 and 2.* London: Hodder Education.

ISBN 978-1-3983-0647-9

Websites

* [CHAS | What are RAMS Documents in Health and Safety](https://www.chas.co.uk/help-advice/risk-management-compliance/risk-assessment-introduction/method-statement-contents/)
* [British Gypsum | The White Book](https://www.british-gypsum.com/literature/white-book)
* [Google | Gantt progress chart for construction](https://www.google.com/search?rlz=1C1CHBD_en-GBGB920GB920&source=univ&tbm=isch&q=Gantt+progress+chart+for+construction&sa=X&ved=2ahUKEwjYrtD9mZfyAhUID8AKHbOGD_gQjJkEegQIChAC&biw=1920&bih=969)
* [Edrawsoft | Construction Gantt Chart - Key Points You Should Know](https://www.edrawsoft.com/project/construction-gantt-chart.html)

Legislation

* [HSE | Reporting a health and safety issue](https://www.hse.gov.uk/contact/concerns.htm)
* [HSE | PUWER 1998: Provision and Use of Work Equipment Regulations 1998. Open learning guidance](https://www.hse.gov.uk/pubns/books/puwer.htm)
* [HSE | PPE](https://www.hse.gov.uk/toolbox/ppe.htm)

| **Learning outcomes** | **Criteria** | **Delivery guidance** |
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| 1. Understand resource selection | * 1. Characteristics of the resources | * Learners to research the benefits and reasons for using modern gypsum preblended and jointing pre-blended and premixed compounds when applying and finishing plasterboard surfaces and abutments for decoration, in line with specifications, drawings, manufacturer’s information and building regulations. * Learners to understand how materials and components are used to produce plain and complex surfaces to form various finishes such as vertical, horizontal, curved, inclined, beams, right angles and splays to form plasterboard finished surfaces. * Learners to understand the importance of fire proofing and the materials used during installation. * Learners will collaborate, discuss and share their work place experience and knowledge to identify and select the correct type of finishing plaster, pre-blended and pre-mixed compounds, reinforcement, sealers, primers, beads and fixings for preparing and applying subsequent coats. * Learners will collaborate, discuss and share their work place experience and knowledge to assess the quality and condition of plasters, pre-blended and pre-mixed compounds, reinforcement, sealers, primers, beads, and fixings and ensure they are fit for use and defect free. * Learners will collaborate, discuss and share their work place experience and knowledge to ensure materials are stored in line with manufacturers’ information and identify defective materials and accessories for poor quality, condition and contamination and ensure they are removed and set to one side. |
| * 1. Use of resources | * Learners will revisit previous RAMS (risk assessment and method statement) work to enable the selection of suitable types of plaster, pre-blended and pre-mixed compounds, components, accessories, beads and reinforcements for producing various backgrounds such as: plasterboard vertical and horizontal surfaces. * Learners to produce RAMS for a small project of their choice to include some of the above resources. * Learners will collaborate and discuss how to identify and report any problematic issues with background surfaces and edges, including jointing areas, preparation methods and related components. * Learners to know the correct reporting procedure including personnel responsible such as line manager, client, manufacturers etc. |
| * 1. Organisational procedures to select resources | * Learners to discuss their workplace experience for selecting materials and interpreting and extracting technical information sources such as drawing, specifications, schedules and manufacturers’ information to ensure quality of installation, prior and during preparation, mixing and application to meet the required industry standard. * Learners to know the organisational procedures for reporting defects and inaccuracies within documentation and to be able to explain the chain of command for this process e.g., supervisor, line manager etc. |
| * 1. Hazards | * Learners to discuss previous RAMS to know and identify hazards associated with the work schedule and materials associated with the installation, plastering, and the tape and jointing process. * Learners to research how to produce and follow method statements and risk assessments to identify correct Personal Protective Equipment (PPE) and carry out the work safely and competently in accordance with health and safety legislation. * Learners to understand their responsibility for reporting accidents, hazards and near misses within the workplace to the correct level of authority when preparing and finishing plasterboard using plasters, or tape and jointing materials, components and accessories. * Learners to engage in a mock theory activity of reporting an accident to RIDDOR (Reporting of Injuries, Diseases and Dangerous Occurrences Regulations) and to the HSE (Health and Safety Executive). |
| 1. Understand working to a contract specification | * 1. Methods of work | * Learners to research and understand their responsibility for completing set work tasks to the required standard and time frames set by planned work programmes. * Learners to complete a Gantt chart to show a work programme for a small plastering/tape and jointing project. * Learners will collaborate, discuss and share work place experience of the effects of not meeting planned deadlines and the follow-on effects it has on other trades and planned work programmes. |
| * 1. Tools and equipment | * Learners will collaborate and discuss how to carry out pre-checks on hand tools and power tools to ensure they are fit for use and purpose when preparing backgrounds, mixing plasters and pre-blended and pre-mixed compounds for application to vertical and horizontal surfaces. * Learners to research and discuss Provision and Use of Work Equipment Regulations 1998 (PUWER). * Learners to know how to use hand tools, power tools and access   equipment competently in line with the method of work and how to store and maintain them during and after completing set work tasks. |
| 1. Comply with the given contract information to carry out the work safely and efficiently to the required specification | * 1. Demonstration of work skills to check, apply and finish | * Learners to undertake workshop activities and to be able to check all complex and plain vertical and horizontal surfaces, angles and splays prior to applying finishing plaster, pre-blended and pre-mixed jointing compounds, assess plasterboard for correct position, abutments and joints, reinforcements, position and alignment of beads, fixing penetration including service hatches, sockets and pipework. * Learners to partake in workshop activities to build and finish non 90-degree splays and to practice the application of pattresses’ and cutting out for any necessary sockets and pipework. * Learners will collaborate, discuss and share work place experience of finishing plaster, pre-blended and pre-mixed compounds, including position of self-adhesive scrim and beads to enable a finished surface for decoration. * Learners to be able to measure surface areas and calculate correct quantities of plasters, jointing compounds, reinforcements, beads, primers, sealers including allowance for waste. * Learners to be able to identify and select the correct type of gypsum finishing plasters such as board finish and multi finish, self-adhesive scrim, mechanical fixings, beads when applying and finishing plasterboard surfaces areas. |
| * 1. Use and maintain hand tools, portable power tools and ancillary equipment to check surface, mix and apply finishing plasters to plasterboard | * Learners to be able to use and maintain the different types of hand tools, power tools and access equipment to prepare and finish plasterboard surfaces using different types of plasters and jointing systems during installation. * Learners to research, collaborate and share workplace experience of applications to some of the following procedures: finish plasterboard surfaces using finishing plasters, tape and jointing systems. * Learners to be able to select different types of finishing plasters, gauge and carry out the mixing process by hand and mechanical methods using drill and whisk to the correct consistency and amount. * Learners to be able to measure, cut and position self-adhesive scrim and fix beads to form stops, splays, returns and expansion joints. * Learners to be able to apply plaster application using two passes of mixed plaster to finish complex and plain vertical and horizontal surfaces including returns and splays. * Learners to ensure surfaces are clean and defect free including wall and ceiling angles, frames, services and sockets and surrounding work surfaces and areas. * Learners to be able to use correct skills, techniques and application methods to apply and finish walls and ceilings and surfaces in line with drawings, specifications, schedules and manufacturers’ information sources to ensure surfaces are finished flat, smooth and defect free in preparation for decoration and that they meet industry standard. |
| * 1. Prepare surface, mix and install tape and joint system to plasterboard | * Learners will research and discuss how to assess and carry out pre-checks to vertical and horizontal plasterboard surfaces and abutments including penetration of fixings, position of beads and reinforcements. * Learners to engage in workshop activities to identify high and low points to a surface and assessment of service boxes and pipe work prior to any cutting and fixing. * Learners to assess and check subsequent application of jointing material, including position of perforated and reinforced tape or self-adhesive scrim and beads for sanding, sealing and priming to a finish to receive decoration. * Learners will research and discuss how to be able to measure, cut, and position and align perforated tape, reinforced tape, self-adhesive scrim, measure, cut, fix and align beads to form stops, splays, returns and expansion joints. |