# Unit 301: Understanding construction practice in Wales.

# Learning Outcomes 4: Know the changes in construction methods over time.

**Learner Task Criteria 4.1**

This section deals with the changes in construction methods over time and considers pre-1919 construction methods and techniques.

Research and answer the following questions relating to this topic area. Use the links listed below to help you and any other relevant web links.

1. What methods, applications and techniques were used to apply plaster and render materials pre-1919 to internal and external walling, including materials, tools, and techniques?
2. Research and list the types of tools used to apply plaster and render materials pre-1919 to internal and external walling.
3. Identify the methods of applying internal and external surface finishes including internal and external ornate plaster work (render and plaster) using lath, hydraulic lime, and the hand tools such as lath hammer, water level and mild steel trowel.
4. Research ‘The Worshipful Company of Plaisterers’ and briefly explain how the plastering industry pre-1919 worked.
5. Research the types of materials used to plaster and render and to produce and fix ornamental fibrous components pre-1919.

6. Briefly describe the methods of construction for the following:

* traditional ground floors (suspended timber)
* timber lintels, bressummers.
* trussed partitions
* traditionally cut roofs and King and Queen post roof trusses.

1. Explain how and where traditional structural jointing techniques joints such as tusk tenons were used in timber framing.
2. Research why locally sourced timber and ironmongery were mainly used, and only handheld tools were available pre-1919.

Suggested website links:

[Lath and Plaster Walls: What Are They and How to Repair? | Homebuilding](https://www.homebuilding.co.uk/advice/lath-and-plaster)

[The Origin of Mouldings | The Victorian Emporium](https://www.thevictorianemporium.com/publications/history/article/the_origin_of_mouldings)

Suspended ground floors [Evolution of Building Elements (uwe.ac.uk)](https://fet.uwe.ac.uk/conweb/house_ages/elements/section3.htm)

[Repair bressumer beams in buildings. Structural repair of wooden bressumer beams with least damage to the building (timber.org.uk)](https://www.timber.org.uk/bressumers.htm)

[Trussed Partitions (chestofbooks.com)](https://chestofbooks.com/architecture/Cyclopedia-Carpentry-Building-1-3/Trussed-Partitions.html)

[Traditional Cut Roof - Construction Studies Q1 (weebly.com)](http://constructionstudiesq1.weebly.com/traditional-cut-roof.html)

[15 Types of Wood Joints and Their Uses (With Pics) (finepowertools.com)](https://www.finepowertools.com/woodworking/wood-joint-types/)

[Tusk Tenons…How Strong Are They? | Wood And Shop](https://woodandshop.com/will-myers-tusk-tenonshow-strong-are-they/)