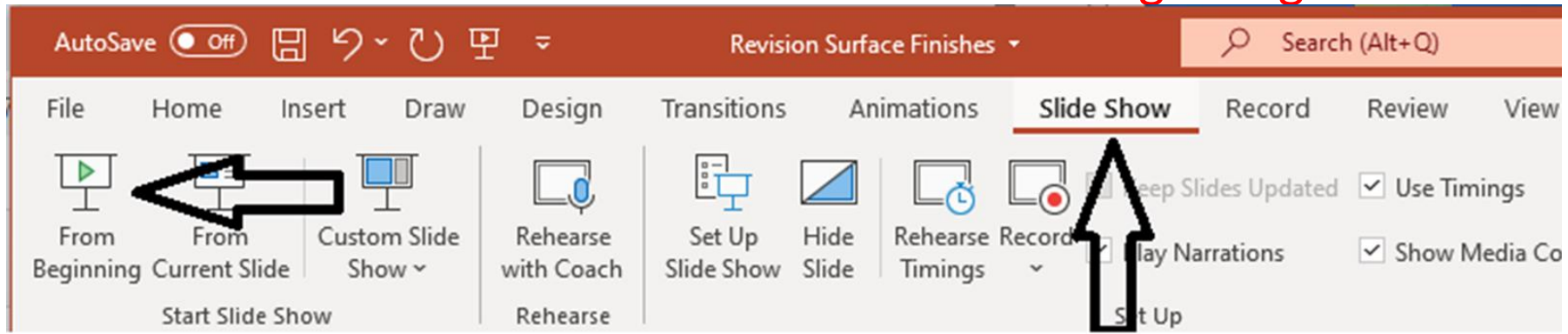


Laminates & Post forming

Revision

Instructions

- To start Presentation click **Slide Show** then **From Beginning**



- Each time you click the **mouse**, or **space bar** or **arrow keys** the next line or animation will appear.
- Try to answer before revealing the answer.
- You can go back using the arrow keys.
- Remember the assessor is looking for key words to show that you demonstrate that you know the answer, make sure that you use them.

Questions

- Q 1. What is a Plastic Laminate?
- Plastic laminate is one of the most frequently used countertop surface materials.
- Q 2. Describe briefly how Plastic Laminates be laid without the use of a press?
- Apply contact adhesive to the chipboard allow 10mins until its tacky.
- Apply contact adhesive to the laminate and to the chipboard and leave until both become tacky.
- Position laminate on chipboard then press firmly expelling all air.
- Allow adhesive to dry.
- Trim when laminate is set.

Questions

- Q 3. Explain briefly how Plastic Laminates are made.
- Layers of Kraft paper impregnated with phenol resin, a sheet of printed or coloured melamine resin impregnated paper and a clear top sheet of melamine are put in a press and bonded together at 1500psi at temp. exceeding 250°F.
- Q 4. Why use curved surfaces instead of square on worktop edges?
- Curved surfaces are less harsh than sharp edges and can reduce the appearance of thicker boards like on Kitchen Worktops.

Questions

- Q 5. What is post forming?
- Post forming is bending a flat sheet of laminate over a defined shape using a wiping action, heat and even constant pressure.
- Q 6. Where can post-formed Laminate be used and why is it used for that purpose?
- Post-formed Laminate can be used on internal and external angles gives one continuous surface which eliminates joints in which dirt and water can gather.
- Q 7. Give three advantages for using plastic laminated worktop over solid marble worktop.
- It would be cheaper, easier to fit, lighter than Marble and no maintenance.

Questions

- Q 8. Give three advantages for using Plastic Laminates.
- Plastic laminate is durable, available in a wide variety of patterns and colours. Plastic laminates have outstanding qualities of likeness, toughness, resistance to heat, moisture, acids etc.
- Q 9. Why is core preparation crucial for laminating.
- The radius edge or shape must be smooth and continuous and free from dust any bumps or hollows will interfere with the bond and show through on the surface of the laminate, esp. on thin or glossy ones.

Questions

- Q 10. Describe how a laminate is post formed over a worktop with a curved edge.
- The laminate is bonded to the flat area of the worktop before bending takes place. The worktop is placed onto machines using continuous forming process. The worktop passes through an infra red heating zone, which heats the over sailing portion of the laminate, past the stainless steel bars which turn the now softened laminate over the profiled edge. Rollers push the laminate onto the glued surface of the curved edge.

Questions

- Q 11. Describe the effect too much heat has on the plastic laminate during the post-forming process.
- If too much heat is applied to the laminate during the post-forming process the laminate can become discoloured or blistered.
- Q 12. List 5 requirements for good quality laminates.
- Resistance to surface abrasion, boiling water & steam, dry heat, impact, cracking & scratching, discolouration & colour change under artificial lighting, cigarette burns. Dimensional stability.