### Perform Preliminary & Diagnostic Work Up

*(10 - 12% of written exam questions are from this domain)*

- Manufacture diagnostic cast from preliminary impression or digital file for case design
- Evaluate case for various types of restorations
- Recognize contraindications for materials/case design
- Perform diagnostic wax up (e.g., traditional, digital)
- Manufacture custom tray

### Manufacture Master Cast (Traditional or Digital)

*(9 - 11% of written exam questions are from this domain)*

- Manufacture the master cast
- Identify and evaluate preparation designs
- Prepare the dies
- Articulate casts

### Manufacture Substructure for Ceramics

*(18 - 20% of written exam questions are from this domain)*

- Design substructure for ceramics (e.g., traditional, digital)
- Identify various manufacturing methods (e.g., traditional, digital)
- Select compatible materials for manufacturing methods
- Identify techniques for manufacturing methods
- Evaluate restoration/substructure
- Identify techniques for soldering/welding, pre and post ceramic

### Ceramic Application & Contouring

*(36 - 38% of written exam questions are from this domain)*

- Select ceramic materials according to prescription
- Prepare surface for ceramic application
- Apply opaque/liner
- Layer ceramic material (e.g., traditional, digital)
- Contour tooth morphology
- Verify occlusion, contacts and excursions
- Evaluate shade and characterization
- Stain and glaze techniques
- Finish and polish techniques
- Evaluate the restoration for final acceptance
### Selection and Application of Materials and Equipment for Ceramics

*(21 - 23% of written exam questions are from this domain)*

<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
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<tbody>
<tr>
<td>Identify properties and application of pattern materials</td>
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<tr>
<td>Identify properties and applications of abrasives and polishing agents</td>
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<td>Identify the use of instruments and equipment</td>
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<td>Identify use and storage of acids</td>
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<td>Identify components of CAD/CAM systems</td>
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<td>Identify properties and application of refractory and investment materials</td>
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<tr>
<td>Identify properties and application of ceramic materials</td>
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<td>Identify application of sealers, die hardeners, spacers, and separating mediums</td>
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