Six Panel Door Painting
RI-PT-1
Craftsmanship Operating Procedure

Market Segment: Residential
Location: Interior
Functional Category: Painting
Last Updated: 3/1/08

Appearance & Quality Assurance Guidelines:
- The PDCA Standard P1-04 states a properly painted surface is defined as:
  - Uniform in appearance, color, texture, hiding, and sheen
  - Free of foreign material, lumps, skins, runs, sags, holidays, misses, or insufficient coverage
  - Free of drips, spatters, spills or overspray caused by the Painting & Decorating Contractor’s workforce
  - When a surface is “properly painted” it shall be examined without magnification at a distance of 39 inches (1 meter) or more, under finished lighting conditions and from a normal viewing position.
- The hardware should be properly installed with no paint on it.
- Brush strokes should be in the direction of the wood grain.

Production Rate:
- 20 – 30 minutes per side
  Production rate may vary with the scope of work.

Safety Guidelines:
- Follow all OSHA guidelines to prevent injury from the following hazards, including but not limited to: electrical, power tools, ladders, scaffolding, trip and fall obstacles and fire & explosion risk; hazardous exposure to your eyes, hearing, extremities and respiratory system; unsafe exposure to chemicals, solvents, lead paint and inadequate ventilation. Practice client safety as necessary to your particular job including smoke & carbon monoxide detectors, safety gates and other child protection devices.
- Follow all EPA guidelines.
If the door is closed be sure no one can open the door from the opposite side while you are working on it. Post a warning sign on the opposite side or block off the opposite side with equipment.

**Materials & Supplies:**
- tack cloths
- paint
- paint strainer
- tape – appropriate size & type
- wet paint sign

**Tools & Equipment:**
- standard personal work tools & supplies
- standard job site tools

**Terms Definition:**
- **Stile** – vertical pieces of wood excluding panels
- **Rails** – horizontal pieces of wood excluding panels
- **Hardware** – fittings, hinges, locks, handles, knobs etc.
- **Tack cloth** – sticky cheese cloth used to remove fine dust particles
- **Panel** – areas of the door that are recessed from the surface

**References**


C. Athey, Cindy et al., Wheels of Learning Level 2 Painting, Upper Saddle River, National Center for Construction Education & Research, 1997.


<table>
<thead>
<tr>
<th>#</th>
<th>Procedure Steps</th>
<th>Completed Properly</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Check to see that the door is properly primed, sanded, dusted, wiped with a tack cloth and that all hardware has been removed or properly protected.</td>
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<tr>
<td>2</td>
<td>Paint top and bottom edges if they have not been previously painted.</td>
<td></td>
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<tr>
<td>3</td>
<td>Paint hinge or latch edge (whichever edge is revealed when the door is open).</td>
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<tr>
<td>4</td>
<td>Paint panel #1 - at each panel, paint the moldings and borders first, then the flat panel surface. Apply paint liberally, then lay off the moldings and borders followed by the flat portion of the panels. Brush in the direction of the grain and wipe off or feather brush out any excess paint from stiles and rails.</td>
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</table>
Paint panel #2 - following the application procedures outlined above.

Paint panel #3, panel #4, panel #5, panel #6, stile #7, rail #8, stile #9, rail #10, stile #11, rail #12, rail #13, stile #14, and then finally stile #15.

Do a quality check as outlined in the Appearance & Quality Assurance Guidelines.

When door is dry, replace hardware and remove any tape.

Professional Techniques:

- All paint (primer) should be clean or thoroughly strained before being applied.
- If area is too warm or too dry, paint will dry quickly making it hard to maintain a wet edge. If possible, increase the humidity, lower the temperature or close air ducts.
- Clean all surfaces in the work area before any finish painting to avoid dust getting into the finish coat.
- All preparation work should be completed prior to applying any top coats. If additional preparation is required after the first of two top coats, remember that additional steps and time will be required.
- Keep brushes conditioned and clean during usage for optimum efficiency and paint release.
- Use brushes with bristles that have good loading and release capacity along with stiffness that balances a smooth finish with a straight edge.
- Use the largest brush that will provide for appropriate cut-lines.
- Use a hot dog/sausage roller to speed up the application of the material and then use a brush to lay off the finish.
- Catch drips, runs, sags in process before the material sets up.
- There are tack cloths specifically designed to use with waterborne enamel paint to avoid surface contamination.
- Think of each piece of wood as its own section - catch drips, runs, sags “in process” before the material sets up to avoid dragging.
- Tops and bottoms of doors should be painted to slow down expansion and contraction and to meet door manufacturer’s warranty requirements.
- Use a mirror to check if the bottoms and tops have been coated.
- Be aware that areas around doorknobs may have excess dirt and oil.
- Rather than masking door hinges, replace hinges with temporary hinges.
Notes:

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Painting 6 Panel Door

1  7  2
10

3  9  4
12

5  11  6
13

8

14

15

Sample
COP Test
Six Panel Door Painting
Open Book Format

Name: ___________________________ Date: __________

1. Properly installed hardware should have __________________ paint on it.

2. The vertical pieces of wood excluding the panels are called ____________________.

3. The horizontal pieces of wood excluding the panels are called ____________________.

4. _______________________________ is a sticky cloth used to remove fine dust particles.

5. The areas of the door that are recessed from the surface are called ________________.

6. A ______________________________ could be used to check if the tops and bottoms of a door have been painted.

7. The production rate on a door is approx. ______________________________ per side.

8. When painting the panels, paint the __________________ and __________________ first.

9. Using a ______________________________ will help to speed up the application of the paint.

10. You should paint the ________________ and ________________ of a door to slow down expansion and contraction and to meet door manufacturer’s warranty requirements.
11. According to a “Properly Painted Surface” all surfaces should be uniform in
_________________________ , ___________________________ , ________________________ ,
_________________________ and ___________________________.

12. List 3 potential hazards from the Safety Guidelines that would pertain to painting a door.
__________________________________________
__________________________________________
__________________________________________

13. When doing the quality checklist, name two items you don’t want to find.
__________________________________________ and ____________________________

14. List 5 Standard Personal Tools
__________________________________________
__________________________________________
__________________________________________
__________________________________________

15. List at least 2 Standard Job Site Tools
__________________________________________

16. Name two ways to protect a door while painting it.
__________________________________________

17. Before painting the door, make sure the ________________ has been removed and/or
properly protected.

18. After the top and bottom edges have been painted, the next edge to paint is the
______________.

19. Always brush in the direction of the wood ____________________________.

20. After all the panels have been painted the first stile and rail to be painted are #’s
__________ and _________.
COP Test
Six Panel Door Painting
Closed Book Format

Name: _______________________________ Date: ____________

1. Circle all the words below that make up the parts of a door.
   a. rail   b. panel   c. casing   d. jamb   e. hinge
   f. sill   g. muntin   h. track   i. stile   j. hardware

2. What is the proper way to paint a door.
   a. from top to bottom   b. from left to right
   c. rails and stiles first and then the panels   d. panels first and then rails and stiles

3. How many panels _____________, how many stiles___________ and
   how many rails____________ are on a 6 Panel Door. (insert numbers)

4. The viewing distance when determining if a door has been “properly painted” is
   ________________________ .

5. __________________________ describe the vertical pieces of wood on the door
   (excluding panels) and the __________________ describe the horizontal pieces of
   wood on the door (excluding panels).
Answer Key – Open Book Format
Six Panel Door Painting

1. no
2. stile
3. rails
4. tack cloth
5. panel
6. mirror
7. 20 – 30 minutes per side
8. moldings and borders
9. foam roller
10. top, bottom
11. appearance, color, texture, hiding, and sheen
12. any 3: electrical, power tools, ladders, scaffolding, trip and fall obstacles, fire & explosion risk, hazardous exposure to eyes, hearing, extremities, respiratory system, unsafe exposure to chemicals, solvents, lead paint, inadequate ventilation
13. any two: foreign material, lumps, skins, runs, sags, holidays, misses, insufficient coverage, drips, spatters, spills, overspray
14. any 5: utility knife, 5-in-1, screw driver, allen wrench, hammer, measuring tape, dust mask, safety glasses, GFI plug, duster brush, flex knives, caulk gun, nail set, paint scraper, bucket hook, roller frame, paint brushes, razor scraper tool, drywall knives, mud pan, drywall saw, hearing protection, roller pan, stir stick
15. any two: wet/dry vacuum, work lights, work bucket, ladders/scaffolding, electrical extension cord, drop cloths
16. wet paint sign or put equipment against it
17. hardware
18. latch edge
19. grain
20. 7 & 8

Answer Key – Closed Book Format
6 Panel Door Painting

1. a, b, c, e, i, j
2. d
3. 6, 5, 4
4. one meter/39 inches
5. stiles, rails