

#### Woodwork Career Alliance Correlation Chart



The content of the text and Lab Workbook correlates to Woodwork Career Alliance (WCA) skill standards. The WCA establishes a benchmark to measure and recognize an individual's skills and knowledge. The WCA skill standards help ensure that students are prepared for rigorous industry standards, and provide a pathway for advancement for professional woodworkers.

The WCA skill standards define the minimum requirements for specific woodworking machine operations. Using the WCA skill standards in a wood training program can help you, your students, and your program obtain industry recognition. The *Modern Cabinetmaking* textbook and Lab Workbook are correlated to the performance standards, helping prepare your students for certification.

### 7. Sanding

#### **Sanding Considerations**

- Pre-Operation Checklist is a prerequisite for ANY operation.
- Tool/machine manufacturer's safety rules and guidelines are followed.
- Stock is supported and secured from movement.
- Hands remain firmly on sander throughout entire operation.
- Sander is moved in smooth, continuous motion.
- Appropriate stance and hand position are utilized for optimum balance and part control.
- Clears machine and cleans work area after operation.
- Required OSHA-approved personal protective equipment is worn.
- Lock-out/tag-out procedure is in place and followed.
- Process is completed in a timely manner.
- Idler and driven drum bearings are functioning properly.
- Auxiliary tables are available and adjusted to correct height/angle.
- Guides material into contact with moving belt smoothly and gradually using stop block/fence.
- Stock is held securely against the fence, miter gauge, or fixture as appropriate.

- Part is fed against belt rotation when not using a support block.
- Machine is properly balanced and excess dust is removed from drums, table, and cabinet.
- A sharp belt of the appropriate coarseness is installed.
- Dust collection is connected and functioning properly.
- Adequate lighting is available to inspect finished edge quality.
- Part table is flat and free of debris and defects.
- Applies appropriate pressure to optimize motion of oscillating belt.
- Withdraws workpiece from moving belt while maintaining parallelism.
- Inspects edge for acceptable surface quality.
- All mill/saw marks are removed.
- All scratches, nicks, and machining defects are removed.
- Available dust control methods are used.
- Equipment is cleaned with compressed air, when available, or bench brush prior to beginning.
- Particle filtration (dust) mask is worn.
- Parts are cleaned of grit and dust prior to sanding with the next finer grit.
- Operator cleans tools and work area after use.
- Electrical cords and clothing are well away from rotating parts.
- Steel mandrel is correctly installed in the spindle collet or socket.
- Rubber cylinder, if used, has no defects before installing sandpaper sleeve.
- Abrasive sleeve is correctly installed on the mandrel.
- Abrasive sleeve has no defects such as tears, holes, or foreign material buildup.
- Table insert is correct size for the mandrel being used.
- Operator uses proper pressure and speed to sand part.
- Verifies tool is properly guarded.
- Demonstrates knowledge of and proper use of all machine specific controls.
- Inspect for evidence of defective finish conditions such as, but not limited to, chatter marks, streaking, or part hesitation.
- Spot check sanded dimensions following the operation.
- Abrasive belt conditions are monitored, analyzed and changed as required.

- If required, select proper program from controller or programmable logic controller (PLC).
- Operator clears machine and cleans work area after use.
- Auxiliary tables are available and adjusted to correct height.
- Lock-out/tag-out procedure is in place and followed by everyone.
- Operator uses proper pressure and speed to sand part.
- Proper stance and hand position are demonstrated.

## **Portable Belt Sander**

| Pre-Operation Checklist |   |   |                     |                          |  |
|-------------------------|---|---|---------------------|--------------------------|--|
| Level                   | Objective   | Performance Standard  | Textbook<br>Chapter | Lab Workbook<br>Material |  |
| 1                       |   | Demonstrates knowledge of and proper use of all machine specific controls.                  | Chapter 30          |                          |  |
|                         |   | Ensures operational path has no obstructions to material and operator.                      | Chapter 30          |                          |  |
|                         |   | Verifies belt is tracking correctly.  | Chapter 30          |                          |  |
|                         |   | Verifies switch is off before plugging in tool.   | Chapter 30          |                          |  |
| 2                       |   | Installs belt properly.   | Chapter 30          |                          |  |
|                         |   | Verifies belt is clean and free of defects.   | Chapter 30          |                          |  |
|                         |   | Verifies platen is free of defects and in proper working order.                             | Chapter 30          |                          |  |
|                         |   | Meets Level 1 performance standard.   |                     |                          |  |
| Operati                 | on—Sand Solid Wood Panels                               |   |                     |                          |  |
| Level                   | Objective   | Performance Standard  | Textbook<br>Chapter | Lab Workbook<br>Material |  |
| 1                       | Given material and machine set up and ready to operate. | Dimensional tolerance ±0.4 mm (1/64") [0.0156"] from flat.                                  | Chapter 30          |                          |  |
|                         |   | No apparent round over of edges.  | Chapter 30          |                          |  |
|                         |   | All scratches, nicks, and defects are removed.  | Chapter 30          |                          |  |
|                         |   | Sanding marks are consistent and directional with the wood grain.                           | Chapter 30          |                          |  |
|                         |   | No evidence of edge/end-dubbing or marks caused by not moving the platen past the edge/end. | Chapter 30          |                          |  |

| 2       | Select material and set up equipment.                                  | Inspect part for minimum defects suitable for the finish desired.                           | Chapter 30          |                          |
|---------|--|---|---------------------|--------------------------|
|         |  | Select appropriate grit and composition of sanding belt to complete operation.              | Chapter 30          |                          |
|         | Ensure sanding belt is installed on the device to maximize paper life. | Chapter 30  |                     |                          |
|         |  | Meets Level 1 performance standard.   |                     |                          |
| Operati | ion—Sand Solid Veneered Panels   |   |                     |                          |
| Level   | Objective  | Performance Standard  | Textbook<br>Chapter | Lab Workbook<br>Material |
| 1       | Given material and machine set up and ready to operate.                | Dimensional tolerance ±0.4 mm (1/64") [0.0156"] from flat.                                  | Chapter 30          |                          |
|         |  | No apparent sand through (ghosting) of veneer.  | Chapter 30          |                          |
|         |  | All scratches, nicks, and defects removed.  | Chapter 30          |                          |
|         |  | Sanding marks shall be consistent and directional with the wood grain.                      | Chapter 30          |                          |
|         |  | No evidence of edge/end-dubbing or marks caused by not moving the platen past the edge/end. | Chapter 30          |                          |
| 2       | Select material and set up equipment.                                  | Inspect part for minimum defects suitable for the finish desired.                           | Chapter 30          |                          |
|         |  | Select appropriate grit and composition of sanding belt to complete operation.              | Chapter 30          |                          |
|         |  | Ensure sanding belt is installed on the device to maximize paper life.                      | Chapter 30          |                          |
|         |  | Meets Level 1 performance standard.   |                     |                          |

## **Edge Sander**

| Pre-Ope | Pre-Operation Checklist                            |  |                     |                          |  |
|---------|--|--|---------------------|--------------------------|--|
| Level   | Objective  | Performance Standard   | Textbook<br>Chapter | Lab Workbook<br>Material |  |
| 1       |  | Verifies belt is properly tensioned, sharp, and tracking correctly.        | Chapter 30          |                          |  |
|         |  | Demonstrates knowledge of and proper use of all machine specific controls. | Chapter 30          |                          |  |
|         |  | Verifies table is at correct height and locked.                            | Chapter 30          |                          |  |
|         |  | Cleans belt if needed.   | Chapter 30          |                          |  |
|         |  | Verifies that 90° stop block/fence is square and securely clamped.         | Chapter 30          |                          |  |
|         |  | Verifies work area is clean, organized, and free from tripping hazards.    | Chapter 30          |                          |  |
| 2       |  | Installs new belt.   | Chapter 30          |                          |  |
|         |  | Adjusts tension and tracking.  | Chapter 30          |                          |  |
|         |  | Adjusts table height to utilize fresh belt surface.                        | Chapter 30          |                          |  |
|         |  | Meets Level 1 performance standard.  |                     |                          |  |
| Operati | on—Sand 90° Edge of Banded Panel                   |  |                     |                          |  |
| Level   | Objective  | Performance Standard   | Textbook<br>Chapter | Lab Workbook<br>Material |  |
| 1       | Given machine set up and ready to                  | A dimensional tolerance of ±1.5 mm (1/16") [0.0625"]                       | Chapter 30          | Section Project          |  |
|         | work, sand the long, straight, $90^{\circ}$        | from flat is maintained across entire length.                              |                     | 4-14                     |  |
|         | edge of a 19 mm $\times$ 400 mm $\times$ 1066      | A tolerance of ±1.5 mm (1/16") [0.0625"] from parallel                     | Chapter 30          | Section Project          |  |
|         | mm (3/4" $\times$ 16" $\times$ 42") board that has | is maintained from opposing edge.  |                     | 4-14                     |  |
|         | been banded with a 3 mm (1/8")                     | Edges are crisp, no apparent round over.                                   | Chapter 30          | Section Project<br>4-14  |  |

|         | [0.125"] solid hardwood edge.  | Edge has no skips, burns, or washboarding or snipes.   | Chapter 30          | Section Project<br>4-14  |
|---------|--|--|---------------------|--------------------------|
|         |  | All mill/saw marks are removed.  | Chapter 30          | Section Project<br>4-14  |
| 2       | Given a board with a long, straight, $90^{\circ}$ edge of 19 mm $\times$ 400 mm $\times$ 1066 mm (3/4" $\times$ 16" $\times$ 42") that has been banded with a 0.7 mm (1/36") | None of the veneer edge is sanded through.   | Chapter 30          |                          |
|         | [0.027"] hardwood veneer edge, set up edge sander with a sharp belt of the appropriate coarseness and properly adjust table and stop block, and sand the material.           | Meets Level 1 performance standard.  |                     |                          |
| Operati | ion—Sand 45° Edge of Board   |  |                     |                          |
| Level   | Objective  | Performance Standard   | Textbook<br>Chapter | Lab Workbook<br>Material |
| 1       | Given an edge sander with a sharp<br>belt of the proper grit and properly  | A dimensional tolerance of ±1.5 mm (1/16") [0.0625"] from flat is maintained across entire length. | Chapter 30          |                          |
|         | adjusted table, stop block, and a special jig or fixture equipped with toggle clamps or other positive   | A tolerance of $\pm 1.5$ mm (1/16") [0.0625"] from parallel is maintained from opposing edge.      | Chapter 30          |                          |
|         | clamping device, sand the straight,  | Edges are crisp, no apparent round over.   | Chapter 30          |                          |
|         | 45° edge of a 19 mm $\times$ 400 mm $\times$<br>1066 mm (3/4" $\times$ 16" $\times$ 42") board   | All mill/saw marks are removed.  | Chapter 30          |                          |
|         | that has been banded with a 3 mm (1/8") [0.125"] solid hardwood edge.  | Edge has no skips, burns or washboarding or snipes.  | Chapter 30          |                          |

| 2         | Given an edge sander install an appropriate sharp belt, properly adjust table and stop block, and using a special jig or fixture equipped as in Level 1, sand the straight, $45^{\circ}$ edge of a 19 mm $\times$ 400 mm $\times$ 1066 mm (3/4" $\times$ 16" $\times$ 42") board that has been banded with a 3 mm (1/8") [0.125"] solid hardwood edge. | Meets Level 1 performance standards.  |                     |                          |
|-----------|--|---|---------------------|--------------------------|
| Operation | on—Sand 90° End of Solid Board   |   |                     |                          |
| Level     | Objective  | Performance Standard  | Textbook<br>Chapter | Lab Workbook<br>Material |
| 1         | Given machine set up and ready to work, sand the straight, 90° end of a  | A tolerance of $\pm 1.5$ mm (1/16") [0.0625"] from parallel is maintained from opposing edge. | Chapter 30          | Section Project<br>4-14  |
|           | 1066 mm $\times$ 400 mm $\times$ 19 mm (42" $\times$ 16" $\times$ 3/4") solid hardwood board.  | End is crisp and straight, no apparent round over.  | Chapter 30          | Section Project<br>4-14  |
|           |  | End has no skips, burns, washboarding, or snipes.   | Chapter 30          | Section Project<br>4-14  |
| 2         | Given a solid hardwood board of 1066 mm × 400 mm × 19 mm (42" × 16" × 3/4"), set up the edge sander with a sharp belt of the appropriate coarseness and properly adjust table and stop block, and sand the material.   | Meets Level 1 performance standard.   |                     |                          |

# **Oscillating Spindle Sander**

| Pre-Operation Checklist |  |  |                     |                          |
|-------------------------|--|--|---------------------|--------------------------|
| Level                   | Objective  | Performance Standard   | Textbook<br>Chapter | Lab Workbook<br>Material |
| 1                       |  | Demonstrates knowledge of and proper use of all machine specific controls. | Chapter 30          |                          |
|                         |  | Verifies table is at correct height/angle and locked.                      | Chapter 30          |                          |
|                         |  | Verifies that correct size table insert is installed.                      | Chapter 30          |                          |
|                         |  | Verifies work area is clean, organized, and free from hazards.             | Chapter 30          |                          |
| 2                       |  | Cleans abrasives and installs new abrasives when necessary.                | Chapter 30          |                          |
|                         |  | Adjusts table height (if equipped) to utilize fresh belt surface.          | Chapter 30          |                          |
|                         |  | Adjusts table angle.   | Chapter 30          |                          |
|                         |  | Selects and installs proper size mandrel and table insert.                 | Chapter 30          |                          |
|                         |  | Selects and installs proper abrasive type and grit.                        | Chapter 30          |                          |
|                         |  | Meets Level 1 performance standard.  |                     |                          |
| Operation               | on—Sand Straight Edge with Fence aid                                 |  |                     |                          |
| Level                   | Objective  | Performance Standard   | Textbook<br>Chapter | Lab Workbook<br>Material |
| 1                       | Given an oscillating spindle sander                                  | Selects proper part to be sanded.  | Chapter 30          |                          |
|                         | set up with proper abrasive sleeve,                                  | Surface of edge has all defects removed.                                   | Chapter 30          |                          |
|                         | with the table set to proper angle, and equipped with a straightedge | Edge is straight and within +.015"/-0" of layout.                          | Chapter 30          |                          |
|                         | fence set up in relation to abrasive                                 | Surface of edge free of burn marks.  | Chapter 30          |                          |

|         | drum surface, sand a straight edge on   | Surface of edge free of "dips" or "divots."                           | Chapter 30          |                          |
|---------|---|---|---------------------|--------------------------|
|         | drum surface, sand a straight edge on rough cut material.   | Surface of edge free of dips of divots.                               | Chapter 30          |                          |
|         |   | Material is sanded at proper angle.                                   | Chapter 30          |                          |
| 2       | Given an oscillating spindle sander and material for sanding, set up sander with a fence, and sand a straight edge on workpiece, with the spindle at 90°. | Install fence for straight sanding.                                   | Chapter 30          |                          |
|         |   | Meets Level 1 performance standard.                                   |                     |                          |
| Operati | ion—Sand Curved Contour   |   |                     |                          |
| Level   | Objective   | Performance Standard  | Textbook<br>Chapter | Lab Workbook<br>Material |
| 1       | Given an oscillating spindle sander   | Selects proper part/edge to be sanded.                                | Chapter 30          |                          |
|         | set up with the proper abrasive sleeve and with the table surface set   | Surface of edge follows shape of contour within +.015"/-0" of layout. | Chapter 30          |                          |
|         | to the proper angle, sand a curved contour traced from a template.  | Surface of edge free of burn marks.                                   | Chapter 30          |                          |
|         |   | Surface of edge free of "dips" or "divots."                           | Chapter 30          |                          |
| 2       | Given an oscillating spindle sander, install the proper abrasive sleeve and   | Meets Level 1 performance standard.                                   |                     |                          |

## **Portable Belt Sander**

| Pre-Operation Checklist |   |   |                     |                          |  |
|-------------------------|---|---|---------------------|--------------------------|--|
| Level                   | Objective   | Performance Standard  | Textbook<br>Chapter | Lab Workbook<br>Material |  |
| 1                       |   | Demonstrates knowledge of and proper use of all machine specific controls.                  | Chapter 30          |                          |  |
|                         |   | Ensures operational path has no obstructions to material and operator.                      | Chapter 30          |                          |  |
|                         |   | Verifies belt is tracking correctly.  | Chapter 30          |                          |  |
|                         |   | Verifies switch is off before plugging in tool.   | Chapter 30          |                          |  |
| 2                       |   | Installs belt properly.   | Chapter 30          |                          |  |
|                         |   | Verifies belt is clean and free of defects.   | Chapter 30          |                          |  |
|                         |   | Verifies platen is free of defects and in proper working order.                             | Chapter 30          |                          |  |
|                         |   | Meets Level 1 performance standard.   |                     |                          |  |
| Operati                 | on—Sand Solid Wood Panels                               |   |                     |                          |  |
| Level                   | Objective   | Performance Standard  | Textbook            | Lab Workbook             |  |
|                         |   |   | Chapter             | Material                 |  |
| 1                       | Given material and machine set up and ready to operate. | Dimensional tolerance ±0.4 mm (1/64") [0.0156"] from flat.                                  | Chapter 30          |                          |  |
|                         |   | No apparent round over of edges.  | Chapter 30          |                          |  |
|                         |   | All scratches, nicks, and defects are removed.  | Chapter 30          |                          |  |
|                         |   | Sanding marks are consistent and directional with the wood grain.                           | Chapter 30          |                          |  |
|                         |   | No evidence of edge/end-dubbing or marks caused by not moving the platen past the edge/end. | Chapter 30          |                          |  |

| 2 | Select material and set up | Inspect part for minimum defects suitable for the  | Chapter 30 |
|---|----------------------------|--|------------|
|   | equipment.                 | finish desired.                                    |            |
|   |                            | Select appropriate grit and composition of sanding | Chapter 30 |
|   |                            | belt to complete operation.                        |            |
|   |                            | Ensure sanding belt is installed on the device to  | Chapter 30 |
|   |                            | maximize paper life.                               |            |
|   |                            | Meets Level 1 performance standard.                |            |

### **Random Orbital Sander**

| Pre-Op  | Pre-Operation Checklist  |  |                     |                          |  |
|---------|--|--|---------------------|--------------------------|--|
| Level   | Objective  | Performance Standard   | Textbook<br>Chapter | Lab Workbook<br>Material |  |
| 1       |  | Verifies tool is cleaned of excess sanding dust.                                   | Chapter 30          |                          |  |
|         |  | Inspects condition of sanding pad.   | Chapter 30          |                          |  |
|         |  | Confirms integrity of electrical or pneumatic connection.                          | Chapter 30          |                          |  |
| Operati | ion—Sand Flat Pieces of Solid Lumber                               |  |                     |                          |  |
| Level   | Objective  | Performance Standard   | Textbook<br>Chapter | Lab Workbook<br>Material |  |
| 1       | Given material and machine set up to operate, sand part(s) through | A dimensional tolerance of $\pm 0.4$ mm (1/64") [0.0156"] from flat is maintained. | Chapter 30          |                          |  |
|         | specified sequence of progressively                                | Edges are crisp, no apparent round over.   | Chapter 30          |                          |  |
|         | finer grits.   | All scratches, nicks, and machining defects are removed.                           | Chapter 30          |                          |  |
|         |  | Pronounced orbital sanding marks are not present.                                  | Chapter 30          |                          |  |

| 2       | Given material and selection of abrasives, machine to sand part(s) through the appropriate sequence of progressively finer grits to a specified | Inspects part for minimum defects suitable for the finish desired.  Uses appropriate grits and compositions of sandpaper for given operation. | Chapter 30<br>Chapter 30 |              |
|---------|---|---|--------------------------|--------------|
|         | final grit.   | Installs sandpaper on the device to maximize paper life.  | Chapter 30               |              |
|         |   | Meets Level 1 performance standard.   |                          |              |
| Operati | ion—Sand Flat Pieces of Veneered Panel  |   |                          |              |
| Level   | Objective   | Performance Standard  | Textbook                 | Lab Workbook |
|         |   |   | Chapter                  | Material     |
| 1       | Given material and machine set up to operate, sand part(s) through specified sequence of progressively finer grits.                             | A dimensional tolerance of $\pm 0.4$ mm (1/64") [0.0156"] from flat is maintained.  | Chapter 30               |              |
|         |   | Edges are crisp, no apparent round over.  | Chapter 30               |              |
|         |   | All scratches, nicks, and machining defects are removed.  | Chapter 30               |              |
|         |   | Pronounced orbital sanding marks are not present.   | Chapter 30               |              |
|         |   | Veneer body remains sound, without telegraphing as a result of sanding.   | Chapter 30               |              |
| 2       | Given material and selection of abrasives, set up machine to sand   | Inspects part for minimum defects suitable for the finish desired.  | Chapter 30               |              |
|         | part(s) through the appropriate sequence of progressively finer grits   | Uses appropriate grits and compositions of sandpaper for given operation.   | Chapter 30               |              |
|         | to a specified final grit.  | Installs sandpaper on the device to maximize paper life.  | Chapter 30               |              |
|         |   | Meets Level 1 performance standard.   |                          |              |

## **Wide Belt Sander**

| Pre-Operation Checklist |  |   |                     |                          |
|-------------------------|--|---|---------------------|--------------------------|
| Level                   | Objective  | Performance Standard  | Textbook<br>Chapter | Lab Workbook<br>Material |
| 1                       |  | Verifies dust collection operable/operating.  | Chapter 30          |                          |
|                         |  | Ensures paths of in-feed and out-feed have no obstructions to material and operator.                  | Chapter 30          |                          |
|                         |  | Minimum part length is observed.  | Chapter 30          |                          |
|                         |  | Material is properly supported at in-feed and out-feed.   | Chapter 30          |                          |
| 2                       |  | Correct sanding head(s) are selected and engaged.   | Chapter 30          |                          |
|                         |  | Sets optimum initial thickness prior to first pass based on maximum thickness or species of material. | Chapter 30          |                          |
|                         |  | Installs appropriate grit/type of belt for given operation.   | Chapter 30          |                          |
|                         |  | Checks and adjusts (when required) abrasive belt tracking.  | Chapter 30          |                          |
|                         |  | Verifies proper adjustment of platen(s).  | Chapter 30          |                          |
|                         |  | Inspects and clears moisture traps and drains.  | Chapter 30          |                          |
|                         |  | Meets Level 1 performance standard.   |                     |                          |
| Operation               | on—Sanding Solid Wood  |   |                     |                          |
| Level                   | Objective  | Performance Standard  | Textbook<br>Chapter | Lab Workbook<br>Material |
| 1                       | Given machine already set up,  | Correct surface is sanded.  | Chapter 30          |                          |
|                         | adjusted, with material ready, sand to the specified grit and thickness. | Proper incremental adjustment made on each pass to reach specified thickness.                         | Chapter 30          |                          |
|                         |  | Staggers loading to ensure entire width of belt and bed is used.                                      | Chapter 30          |                          |

|         |  | Demonstrates ability to monitor load meter.                                     | Chapter 30          |                          |
|---------|--|---|---------------------|--------------------------|
|         |  | Pieces fed in correct direction with regard to grain.                           | Chapter 30          |                          |
| 2       | Given specifications, set up machine to sand to the specified feed speed, grit, and thickness.                           | Feed speed set correctly.   | Chapter 30          |                          |
|         |  | Proper grit installed.  | Chapter 30          |                          |
|         |  | Multiple head machine started in proper sequence and time delay.                | Chapter 30          |                          |
|         |  | Meets Level 1 performance standard.   |                     |                          |
| Operati | on—Sanding Veneered Panels   |   |                     |                          |
| Level   | Objective  | Performance Standard  | Textbook<br>Chapter | Lab Workbook<br>Material |
| 1       | Given machine already set up, adjusted, with material ready, sand to the specified grit and thickness.                   | Correct surface is sanded.  | Chapter 30          |                          |
|         |  | Proper incremental adjustment made on each pass to reach specified thickness.   | Chapter 30          |                          |
|         |  | Staggers loading to ensure entire width of belt and bed is used.                | Chapter 30          |                          |
|         |  | Demonstrates ability to monitor load meter.                                     | Chapter 30          |                          |
|         |  | Pieces fed in correct direction with regard to grain.                           | Chapter 30          |                          |
| 2       | Given a target finish condition, set up machine, and sand the correct surfaces of veneered panels to the specified grit. | Measure panel thickness and set machine.  | Chapter 30          |                          |
|         |  | Height of pad adjusted to prevent sanding through.                              | Chapter 30          |                          |
|         |  | Uses proper feed speed.   | Chapter 30          |                          |
|         |  | Processes and inspects trial panel and makes adjustments as necessary.          | Chapter 30          |                          |
|         |  | Sets each sanding head for correct stock removal when utilizing multiple heads. | Chapter 30          |                          |
|         |  | Appropriate changes to program made as required.                                | Chapter 30          |                          |
|         |  |   |                     |                          |