**Teaching Notes - Portable Power Sanders** (1:15)

**D/A sander**

Give students Disks:

5 @ 80 grit

1. 120

10 @180

1 Dust mask (FastCap)

* Location & care
* On/Off Variable speed
* Size of orbits
* Lubrication
* Tool Storage

Demo

* Start on work and finish off work
* Work in any direction, but overlap 50% on each pass
* Sander should be moved at a uniform slow rate
* Weight of sander will provide proper pressure for sanding
* Different backing pads available-soft-better finish, hard faster material removal
* Show air pressure drop & explain high flow couplers
* 3M Clean Sand unit

1. Film backed discs are more durable when working into corners
2. Sanding along the edges of the pad will cause uneven wear on the pad and divots in the work; DO NOT TIP the sander

**Orbital Pad Sander**

* Location & care
* Half sheet & quarter sheet
* Power switch
* Variable speed

Demo

* Changing Abrasive

**Portable Belt Sander**

* Location & care
* Switch
* Variable speed
* Changing belts and tracking

Demo

* Start moving the sander when switched on
* Control near edges
* Pencil marks for quantifying stock removal
* **Scribing** (countertops scribing exercise)
* Always sand in the direction of the grain unless you are flattening or maximizing removal of material

**Detail Sanders**

* Location & care
* Changing abrasives
* Cutting attachments
* Sanding into corners

**Hand Sanding Blocks**

* Sand in the direction of the grain
* Use a backer block
* Sand entire piece
* Demo cutting sheets to size (already covered in abrasives unit)

**Sanding guidelines**

* Clean between grits
* Sand with the grain
* Always sand the entire piece even when doing touch up
* Sand within 24 hours of finishing
* Use a low angle light
* Abrasive cleaning stick

**Review exercise and applying Dye Stain**