Technique

1. Obtain your representative wheat sample using an appropriate sampling procedure.
2. Screen a half litre sub-sample sample using a certified 2.0 mm wheat screen.
3. After screening, draw a handful of grain from the grain remaining above the screen.
4. Place this grain onto the 300 grain slotted tray.
5. Holding the slotted tray with both hands, with the discharge opening closest to your body, rock the sample back and forth until each hole is filled with a grain.
6. You may need to gently brush out some grains from holes that are double-filled.
7. You may need to place individual grains into any empty slots, so that each slot contains one grain. (A total of 300 grains)
8. Once the all the holes are filled, allow the excess grains to slide out through the open corner.

With practice, this technique will consistently and efficiently separate exactly 300 grains.

Transfer into the counting tray

Once 300 grains are captured in the slotted tray, they can then be transferred into the counting tray.

1. Keeping the grain-filled slotted tray level, place the counting tray on top and hold together.
2. Flip both trays upside down, so that the grains are emptied from the slotted tray into the counting tray.
3. Gently tap the base of the slotted tray to loosen any remaining grain that might be stuck in a slot.
4. Now that the 300 grains are transferred into the counting tray, the slotted tray can be put aside.
5. You will now have three rows of grain, each row containing 100 grains each.

Determination of defective grains

1. Using the metal tweezers included in your kit, pick out defective grains in accordance with the Grain Trade Australia Commodity Standards
2. Place the defective grains into the two narrow channels on either side of the counting tray for ease of counting, once all of the 300 grains have been inspected.
3. Once the inspection process is complete, count the various defects in each category to give a total count.
4. To express this total count as a percentage divide the count by three to convert to a percentage.