Determine the total moisture content of aggregate (fine or coarse).

**Moisture content**: is the water on the surface of the aggregate or in the pores.

- We calculate the moisture content to know the exact w/c water cement ratio and to measure the calculation of the mix design for the cement.
- The moisture content comes from two things: first, the water on the surface of the aggregate, and the second thing is the water inside the pores.

**Equipments:**

1. Can or container to put the sample in it.
2. Balance to weight the sample.
3. Oven to dry the sample \((110 \pm 5)\).

**Procedure:**

1. We take a random sample of aggregate.
2. Weight the sample \(w_w\).
3. Dry the sample in the oven in temperature of \(110\pm5\) C till the weight of the sample become constant.
4. Weight the dried sample \(w_d\).
5. Then we use the calculations to get \(w.c\)

\[
WC = \frac{w_w - w_d}{w_d}
\]