Government training cooksE

* Before 58%

* After 189/300 = 63% improvement?

Testing if there was an improvement After. Introduction of scheme

· Ho: No unprovement

· the : improvement.

Equivalently

· Ho: P & 0.58 no improvement

· H1: P> 0.58 improvement.

TEST STATISTIC

observed - Ho =
$$\frac{63 - 58}{5.E.}$$
 $\sqrt{58 \times 42}$ $\sqrt{300.}$

N.B: use Expected value of P when Ho is assumed to be true when Computing S.E. for hypothesis tests,

$$TS = \frac{5}{\sqrt{2436/300}} = \frac{5}{\sqrt{8.12}}$$

$$= \frac{5}{2.85}$$

$$= 1.755$$

C.V. d = 5%Test is a one tailed test.

Column = d/1 = 0.05Large Sample

E. CV = 1.645.

Decision.

y ITS/ > CV then Reject Ho.

Here 11.755 > 1.645

Therefore we can reject to.

Sufficient evidence of improvement.