Let $x_1 :=$ the baseline values

$x_2 :=$ the test values

$\bar{d} := \overline{x_1 - x_2}$

$s_d := stddev(x_1 - x_2)$

$n :=$ the number of samples

Then:

$$t := \frac{\bar{d}}{(s_d / \sqrt{n})}$$

t is on the Student's t-distribution

with n-1 degrees of freedom

$p := Pr(T > t)$