

$$UCL = \bar{x} + t_{0.90} \left(\frac{s}{\sqrt{n}} \right)$$

And \bar{x} is the sample mean; s is the sample standard deviation; n is the number of samples; and $t_{0.90}$ is the t statistic for a 90% one-tailed confidence interval with $n-1$ degrees of freedom (from Appendix A).