

*Six Sigma Handbook Fourth Edition: Corrections*

- Page xiv (and multiple pages throughout text):

The link was changed to

<https://www.mhprofessionalresources.com/sites/ssh4/>. You'll need to register on the site to view the online content.

- Page 32 Figure 1.9 reference should read:  
Figure 1.9 provides a sample of the selection process for a Black Belt candidate at a particular firm.

- Page 300 Hypergeometric Distribution second paragraph third sentence:  
Furthermore, the lot is quite small, the sample is 33% of the entire lot.

- Page 401 Averages Chart calculations should be:

$$LCL=118.85-1.88*0.51=117.89$$

$$UCL=118.85+1.88*0.51=119.81$$

- Page 403: The reproducibility estimate can be adjusted using the following equation:

$$\sqrt{\left(\frac{R_0}{d_2^*}\right)^2 - \frac{\sigma_e^2}{nr}} = \sqrt{\left(\frac{0.11}{1.41}\right)^2 - \frac{(0.44)^2}{5 \times 2}}$$
$$\sqrt{0.0061 - 0.019} = 0$$

- Page 404 (bottom) and page 405 (top) equations should be:

$$\sigma_{reproducibility} = \sqrt{\sigma_{repeatability+reproducibility}^2 - \sigma_{repeatability}^2}$$

- Page 406, Step 4 in Example of Measurement Systems Analysis Summary:

$$\sigma_p = \frac{22.23}{2.48} = 8.96$$

- Page 407, Item 4: The number of distinct data categories that can be

created with this measurement system is  $1.41 \times \frac{\sigma_t}{\sigma_{repeatability+reproducibility}}$

$$1.41 \times \frac{8.97}{0.44} = 28.7 = 28$$

- Page 433. Equation 10.1 for takt time. While this formula is generally acceptable for expressing takt time in terms of a desired production rate, it is more common to see it expressed as the inverse of the expression shown (i.e. *customer required volume* divided by *available work time*). The inverse of equation 10.1 would have units of time (e.g. second, minutes, hours or days), whereas equation 10.1 would have units of items per time interval (e.g. items per second; satellites per day).

*revised 16-Jan-17*