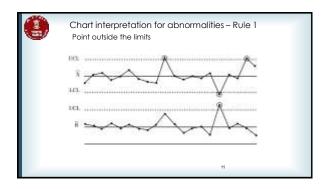
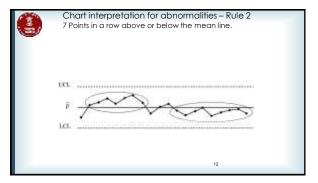
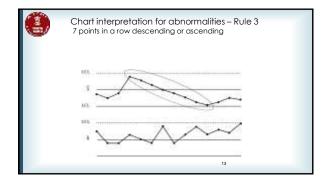


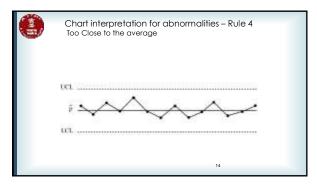
How do I calculate the control limits? p and np Charts $For \ \text{varied sample size:} \qquad For \ \text{constant sample size:}$ $UCL_p = \overline{P} + 3 \frac{\sqrt{\overline{P}(1-\overline{P})}}{\sqrt{n}} \qquad UCL_{np} = n\overline{P} + 3\sqrt{n\overline{P}(1-\overline{P})}$ $LCL_p = \overline{P} - 3 \frac{\sqrt{\overline{P}(1-\overline{P})}}{\sqrt{n}} \qquad LCL_{np} = n\overline{P} - 3\sqrt{n\overline{P}(1-\overline{P})}$ Note: P charts have an individually calculated control limit for each point plotted P = number of rejects in the subgroup/number inspected in subgroup $\overline{P} = \text{total number of rejects/total number inspected}$ n = number inspected in subgroup

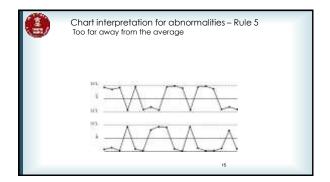
How do I calculate the control limits? c and u Charts $For \text{ varied opportunity (u):} \qquad For \text{ constant opportunity (c):}$ $UCL_u = \overline{U} + 3\frac{\sqrt{\overline{U}}}{\sqrt{\overline{n}}} \qquad UCL_c = \overline{C} + 3\sqrt{\overline{C}}$ $LCL_v = \overline{U} - 3\frac{\sqrt{\overline{U}}}{\sqrt{\overline{n}}} \qquad LCL_c = \overline{C} - 3\sqrt{\overline{C}}$ Note: U charts have an individually calculated control limit for each point plotted $\overline{C} = \text{total number of nonconformities/total number of subgroups}$ $\overline{U} = \text{total number of nonconformities/total units evaluated}$ n = number evaluated in subgroup

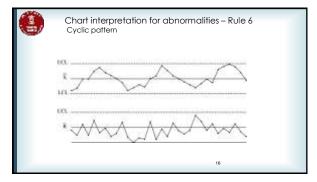






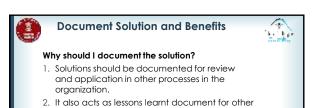












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