

Exensys Software Solutions Ltd.		AA/B/CCDD V x.y
White Paper		W. E. F. dd/mm/yy



**Best Practice**  
**eXensys – Production Quality Inspection**

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**Introduction:**

In Manufacturing, quality control is concerned in building systems to make sure products or services are produced to meet or exceed customer expectations. Inspection plays a major role in controlling the quality of a product. Inspection is an organized examination or formal evaluation exercise. It involves the measurements, tests, and gauges applied to certain characteristics in regard to an object or activity. The results are usually compared to specified requirements and standards for determining whether the item or activity is in line with these targets.

**Overview:**

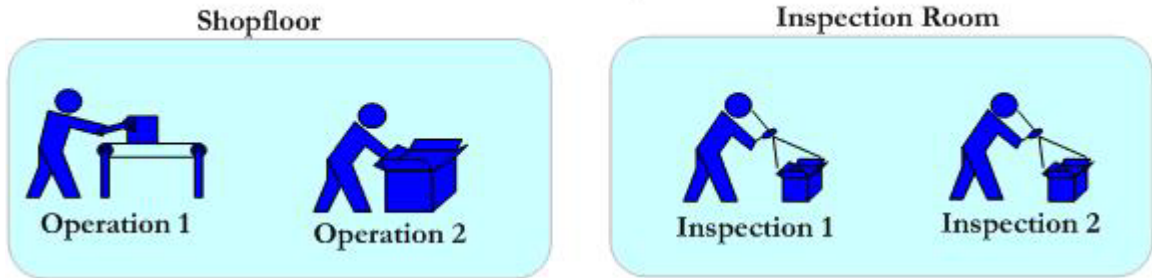
The extent of inspection desirable to decide the acceptability of a lot can vary from no inspection to 100%. The decision of how much inspection is needed governed by previous knowledge available as to quality, uniformity of the lot and the allowable degree of risk. Prior knowledge that is helpful in deciding the amount of inspection includes:

- Previous quality history on the product item & supplier.
- The level of importance that the item has in the overall system.
- Availability of accurate & precise instruments.
- Product homogeneity.

The inspections can be carried out either on-line or off-line. In on-line quality inspection, the inspectors walk through the production lines in factory and inspection results will be generated for which there will not be any material movement. In case of off-line quality inspection, the items are issued to quality lab where the inspection is carried out. The items are requested for inventory and to receive in quality lab. After completing the inspection the results are generated, which is attached along with the test certificates. The inspection can be done either for 100% inspection or sampling methodology based on the test definition.

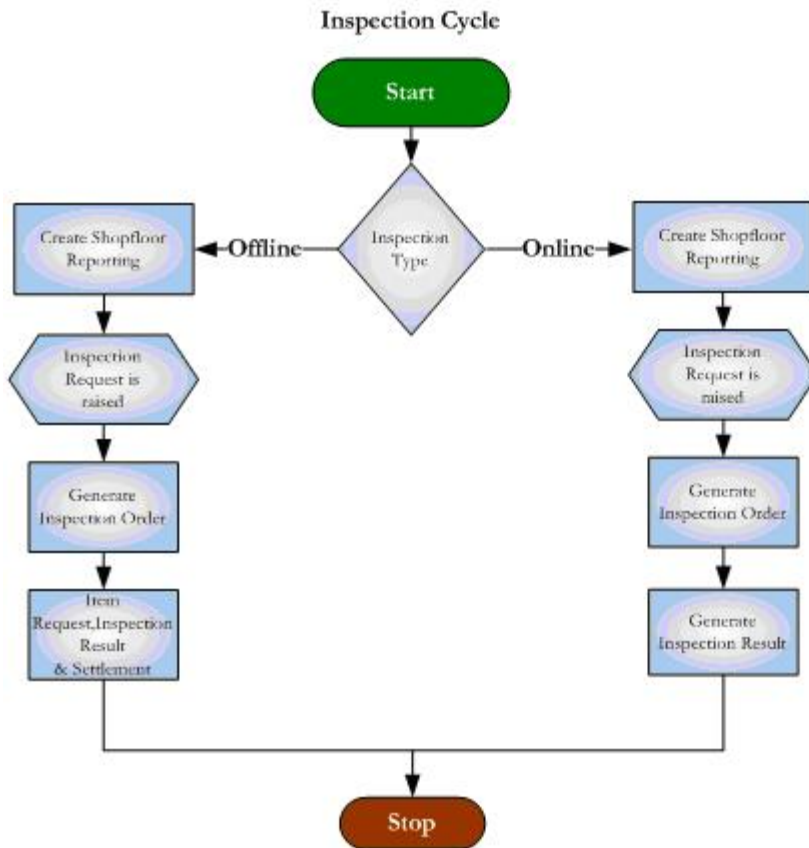


### Offline Inspection



### How Inspection Cycle happens in eXensys Application:

The process is initiated based on the confirmation from shop floor reporting. On completing an operation, this information is automatically given to inspector. The test details are mapped on generating inspection order. Based on the type of inspection whether online or offline, the inspection process is initiated. If it is online, the inspector will inspect the items in shop floor directly and give the results so that subsequent operation will be started. If it offline, then the inspector will receive the items based on sampling methodology or 100% inspection and continue with the inspection. The final results will be monitored and based on this decisions will be taken on the subsequent operations.



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This process is required to confirm whether the ongoing operations are produced within the quality requirements. The benefits of the process are, the shop floor supervisor will be knowing the actual results of the production and inspector will be having the trend of inspection details.

**Benefits:**

- Better Product Quality
- Reduction of scrap
- Improved Customer Satisfaction
- Process Improvement.

**Conclusion:**

Every organization should have plan to improve it's quality of the product for a long run in the market.

