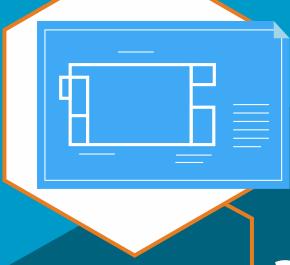
9 Steps to GxP-compliant Warehouse Mapping



Create a validation master plan

Establish a validation plan that takes a risk-based approach. Where will environmentally sensitive products and materials be stored?

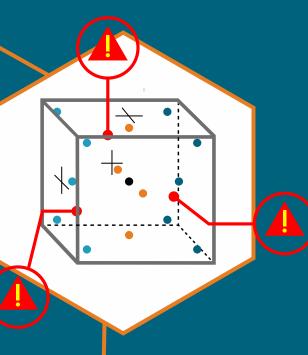


Identify areas at risk

in temperature and humidity. **Account for:** • Volume of space • Temperature gradients

Identify risk from variations

- Energy sources (heaters, AC, fans)
- Shelving layout HVAC control locations
- High traffic areas
- Seasonality
- Location to external exposure

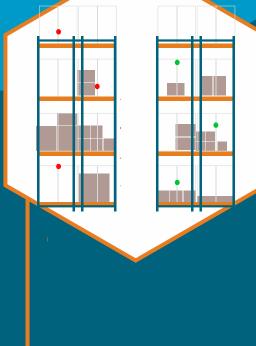




information Based on identified risks, make decisions on what your data

needs are for your mapping study.





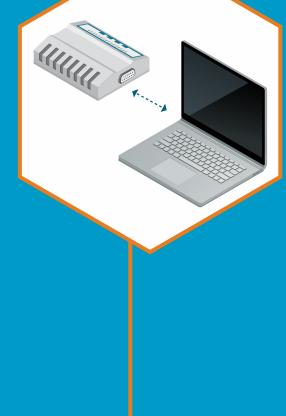


sensor distribution How can we create a uniform distribution

of sensors that will give us a full

understanding of the environment?

Take into consideration external walls, windows, lighting, and any type of air circulation. Storage shelf capacity has an effect on airflow and temperature gradients. Will humidity have an adverse effect on products? Consider using both temperature and humidity sensors.





technology **Choose equipment designed** for mapping studies. Software that meets all 21 CFR Part 11 & International standards

Temperature only

• Temperature and Humidity High-accuracy measurement range Long-term stability

- Traceable calibration Clear, comprehensive and

accessible records



Set up

 Dates and times Calculated values (temp. min/max, avg.) Review trends over time Instrument settings

Test and

• Traceable calibration Calibration info Review and approve report

review data

data for these points:

Conduct a test and look at

- modifications Identify locations where products



Make

may be exposed to unacceptable

to storage locations.

validation protocol in

mapping test.

Don't forget to modify your

light of results from initial

conditions, then make adjustments

Conduct and document a mapping study for approval then plan out mapping schedule.



for validation mapping studies.

Have you successfully mapped your facility?

Take action and read up on all 9 steps

READ ABOUT VALIDATION **MAPPING**

GET TO KNOW CONTINUOUS MAPPING