

BIF – Factory Acceptance Tests

Presented at BEMA's Annual Meeting June 24, 2015 by: Mike Pierce

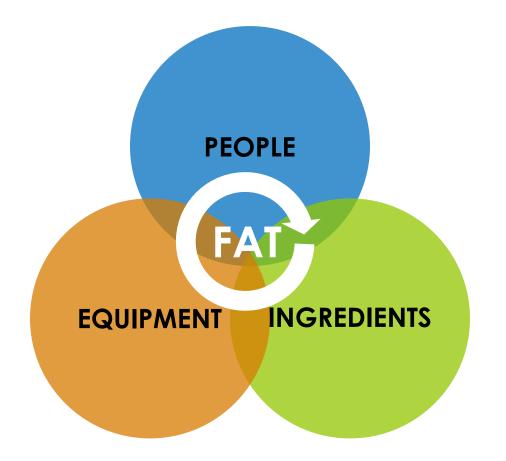
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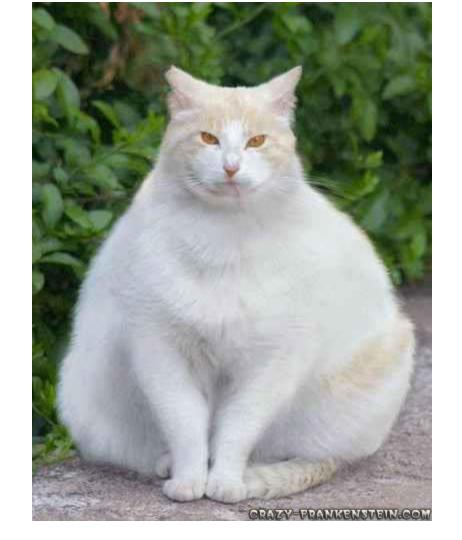
factory acceptance testing







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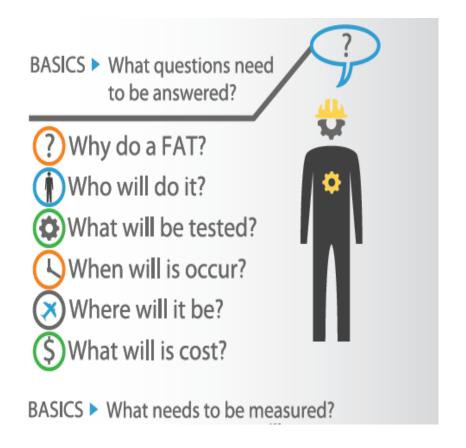
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F.A.T.

- What does F.A.T. really mean?
 - Factory Acceptance Test
 - Field Acceptance Test
 - Final Acceptance Test
 - Functional Acceptance Test
 - First Article Testing





factory acceptance testing

Why do a F.A.T.?

- To ensure that the equipment/system being purchased meets the agreed upon design specifications before shipping to the Baker's plant.
- Allows any identified issues to be corrected at the Vendor's location to:
 - Realize the technical expertise and resources of the vendor
 - Minimize potential cross-contamination from entering the customer's plant

 factory

acceptance

Get the best product delivered to the customer

F.A.T.

- Who Should do an F.A.T.?
 - Bakers
 - Participation varies on F.A.T. Level (More to come on that)
 - Plant Support Engineering/Maintenance/QA, Corporate Engineering
 - Equipment Manufacturers (Suppliers)
 - Designer/Manufacturing Representatives/Sales



BASICS > What does it all mean?



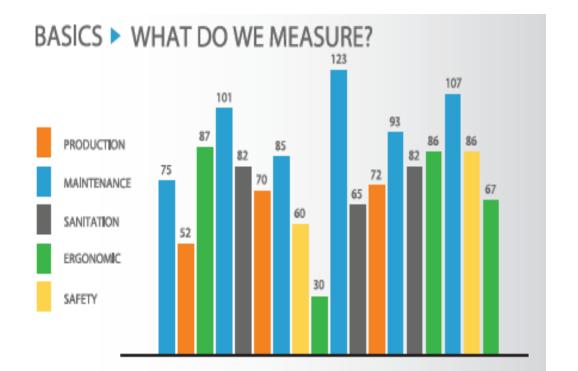




Level 2 Details



Level 3 Details

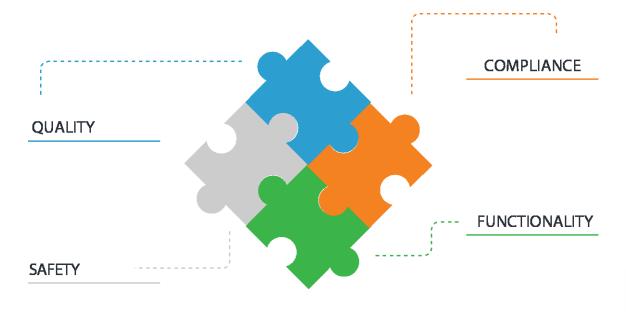


KEY PERFORMANCE INDICATORS

Determine Key Performance Indicators for testing the production readiness of the equipment during the FAT. KPI's should relate directly to specific production or plant requirements as needed.



Level 1 FAT





Level 1 FAT

- Most Basic Level
- New Vendor
- Simpler systems / Equipment
- Introduction of simple to moderate new technologies in the plant





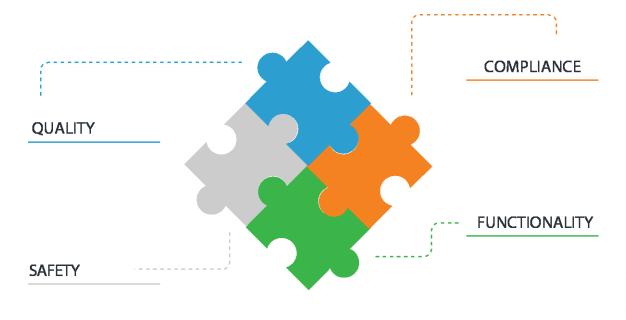
Level 1 FAT

- Checklist part of the contract
- Occurs 1-2 weeks before shipment
- Fit / Finish
- Safety
- Electro / Mech systems
- Overview of PLC Program





Level 2 FAT





Level 2 FAT

- Level 1 Plus
 - Research, training, product development
- Custom designed equipment, new technologies
- New Products, Formulations
- Significant change in production procedures



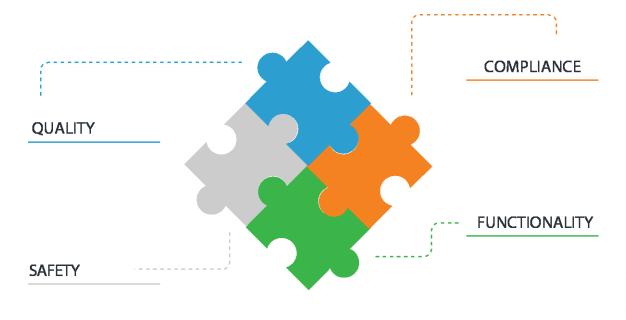


Level 2 FAT

- Clear expectations in contract / PO
- Requires significant planning
- May require temporary installation of utilities at OEM location
- Ingredients/supplies shipped to OEM well in advance
- At least 2-4 weeks before shipment
- Added cost to OEM, should be negotiated into PO



Level 3 FAT





Level 3 FAT

- Level 2 Plus
 - Total Commissioning
- Occur at OEM location or Plant
- Requires complete physical, mechanical and electrical installation
- Produce acceptable product



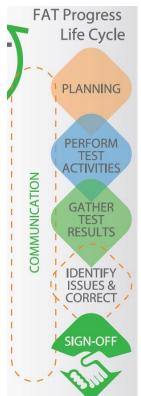
Level 3 FAT



- Cost is dependent on complexity of systems, amount of time required, location, number of personnel needed
- Level 3 FAT can cost as much s 10% to 25% of the cost of the equipment and installation



1-2-3's of FAT Testing



 Plan- understand what is going to be required and plan for it

- Perform tests
- Assess results
- Take action as needed
- Sign-off







Who Should the Customer Send to the FAT?





Where to find the poll





What percent of bakers travel to the equipment manufacturers locale to view equipment prior to shipping?



Where to find the poll



