





Introduction



Agenda

- Definitions
- Value
- 8 Key Components
- 3 Best Practices
- Next steps



IDCON Productivity Cycle

Planning:

Defining the What, How and How Long of a maintenance activity

Scheduling:

Defining the *Who* and *When* of a Maintenance activity



Technical Database:

All files, drawings, instructions, lists and standards needed to plan and schedule efficiently and effectively.

Uncover the Hidden Value of the Technical Database

Number of Craftspeople	% of Time Craftspeople "Plan"		Target "Planning" Time (hours/day)	
60	50	240	50	190

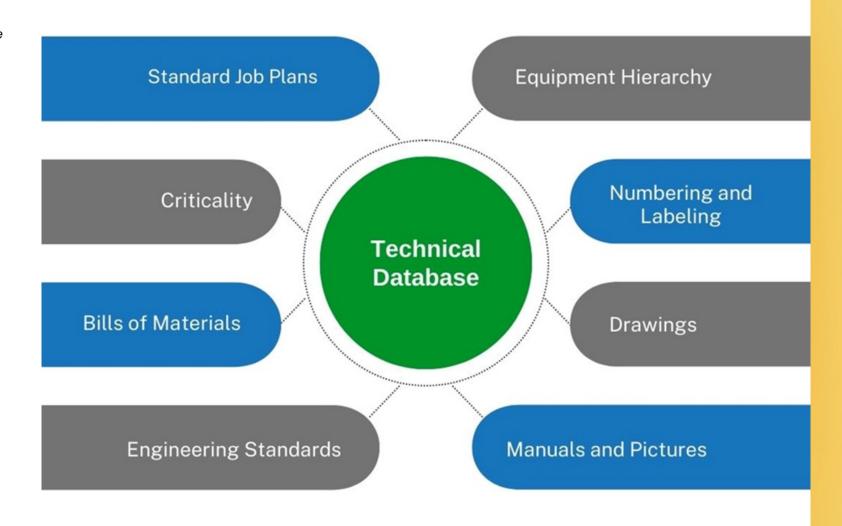
Number of	Actual Time Managing	Target Time	Freed Up Time
Planners	Parts (hours/day)	(hours/day)	(hours/day)
4	12	4	8

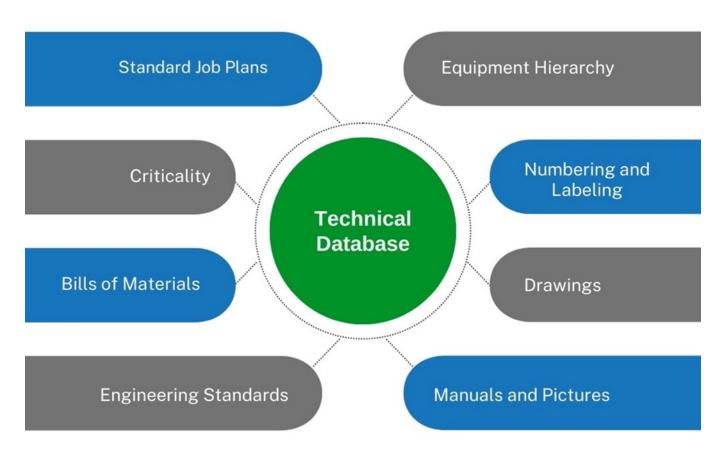
Cost of Downtime (\$/hour)	Downtime Due to Missing Parts (hrs/year)	Cost of Increased Downtime (\$/year)		Bottomline Profit (\$/year)
10,000	40	400,000	4	360,000





8 Components of an Effective Technical Database

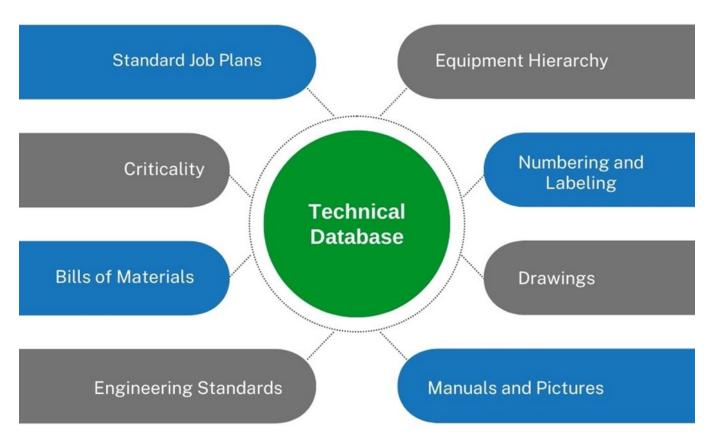




Equipment Hierarchy

- Group of equipment locations or numbers in a tree structure that matches the manufacturing process
- Foundation of the technical database
- Use 8 step process to create a great hierarchy

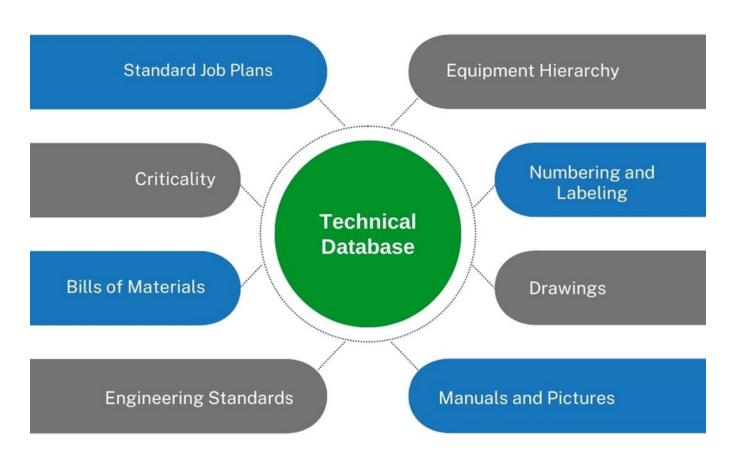




Numbering and Labeling

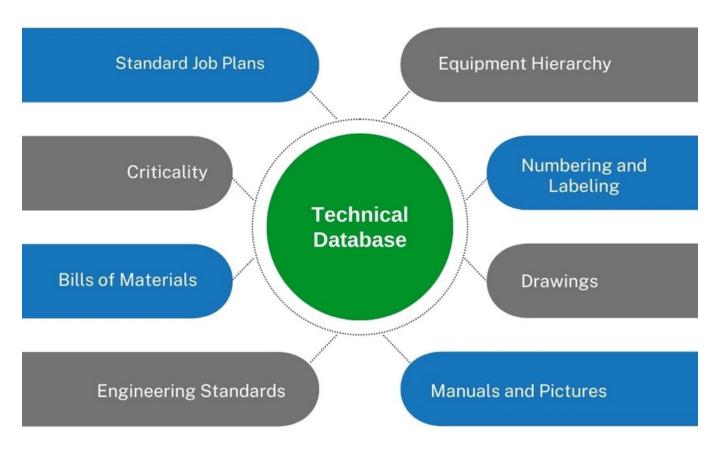
- Use materials to withstand environmental conditions
- Apply labels with consistent methods and locations
- Label large equipment in multiple locations
- Inspect your labels routinely
- Use equipment name and number





Drawings

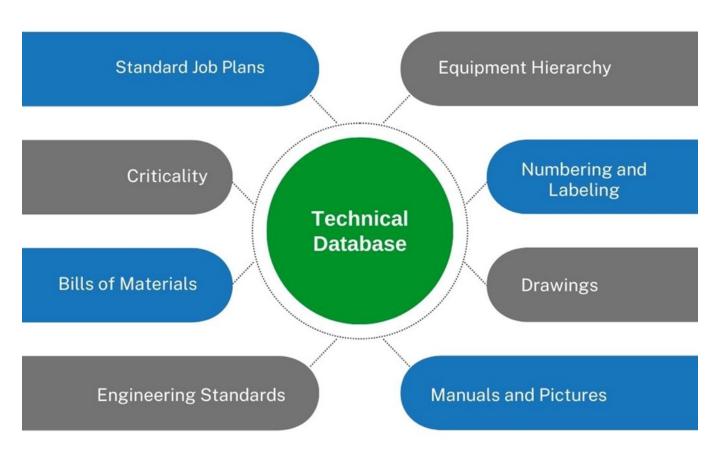
- Focus on providing access to drawings best suited to support planning and scheduling
- Link manufacturer part numbers to plant specific parts in the CMMS



Manuals and Pictures

- Add procedures from manuals to standard job plans
- Use pictures to document as-found condition and improve documentation
- Save manuals and pictures in a structure that matches the equipment hierarchy

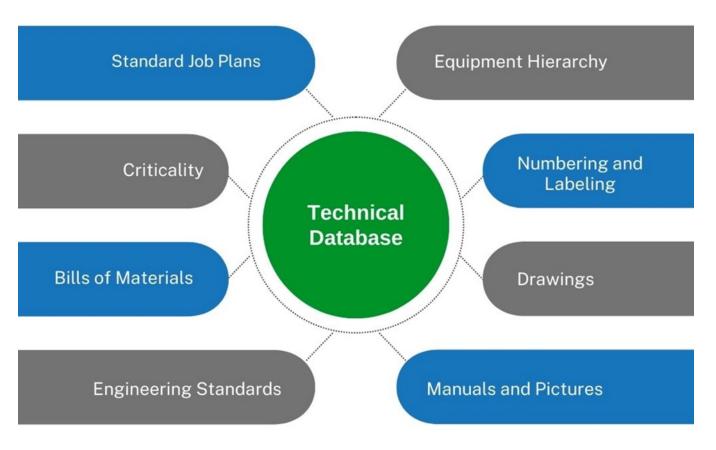




Engineering Standards

- Formal documents that define standard work methods
- Use existing industry standards and create plant specific standards
- Focus on critical and repetitive jobs

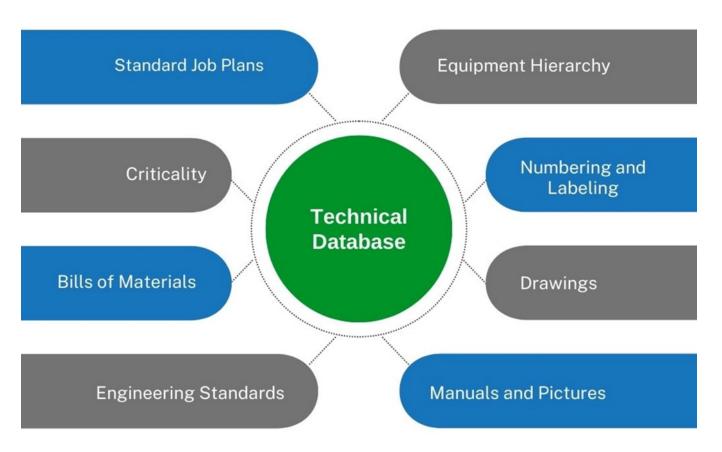




Bills of Material

- A list of parts used on the equipment
- A Planner's Best Friend
- Level of completeness depends on plant needs but should be available for all maintained equipment
- Components must be named well

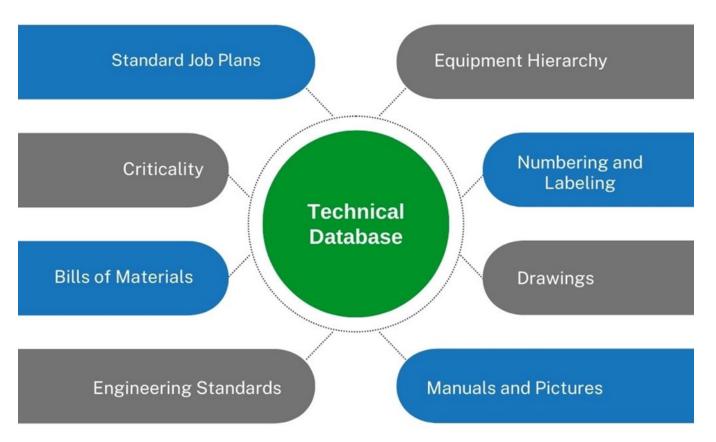




Criticality

- Based on risks to safety, environment and production
- Judge likelihood and severity of failure
- Use results to prioritize predictive, preventative and corrective maintenance work





Standard Job Plans

- Documented plan for a job that can be used repeatedly
- The focus and goal of the planning process
- Utilizes all other aspects of the technical database
- Use as a gauge for Planning





3 Best Practices of an Effective Technical Database





3 Best Practices for the Technical Database



Accurate

- Correct and complete
- Cover 100% of maintainable equipment with technical database
- Identify an owner of each component of the technical database
- Use management of change to keep data accurate over time



3 Best Practices for the Technical Database



Accessible

- Able to be located and understood
- Keep documents in an electronic and easily searchable format
- Be consistent with where information is stored
- Increase accessibility through training



3 Best Practices for the Technical Database

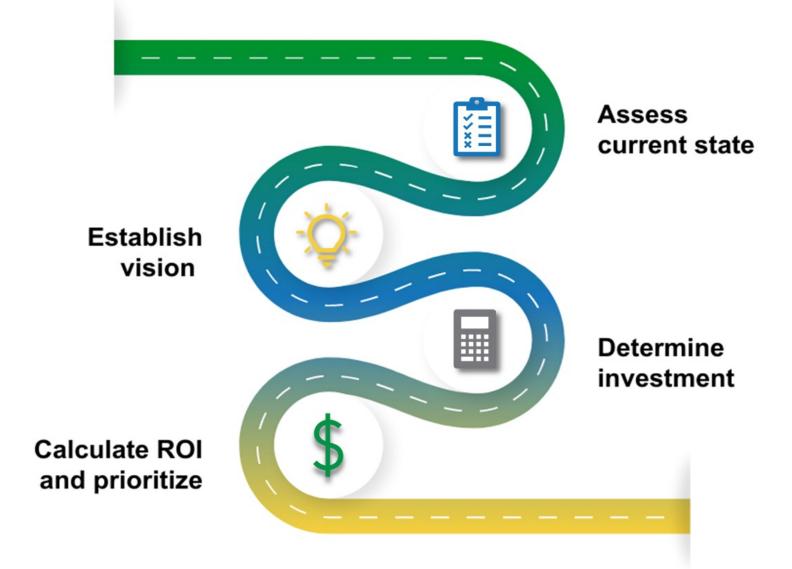


Applied

- The information must be used to be of value
- Conduct routine spot checks of work management processes to ensure data is being applied
- Ensure crews understand the work order packages and how to use the information



How do I get started improving the Technical Database?





How do I get started improving the Technical Database?



Current State: Uncover the current state by interviewing key personnel.



Investment: Determine the investment needed to meet goals.



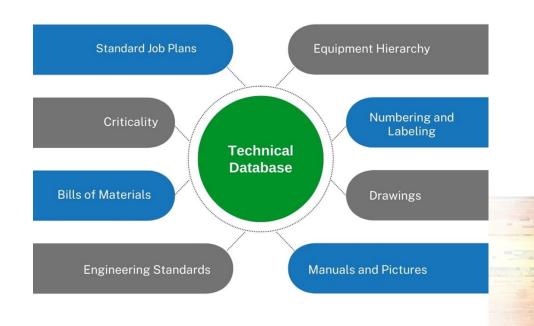
Vision: Establish a vision for production, planning, work execution, and data use.



Return on Investment: Calculate the return on investment and prioritize.

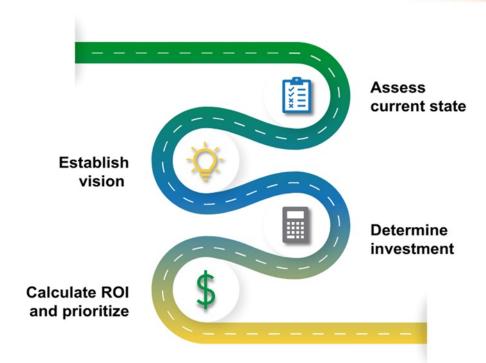






Summary









John Sewell, Consultant j.sewell@idcon.com

https://www.idcon.com/ https://maintenanceworld.com/

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