Day 3

Maintenance Planning and Scheduling 3 Day Course

Work Planning continued and Work Scheduling

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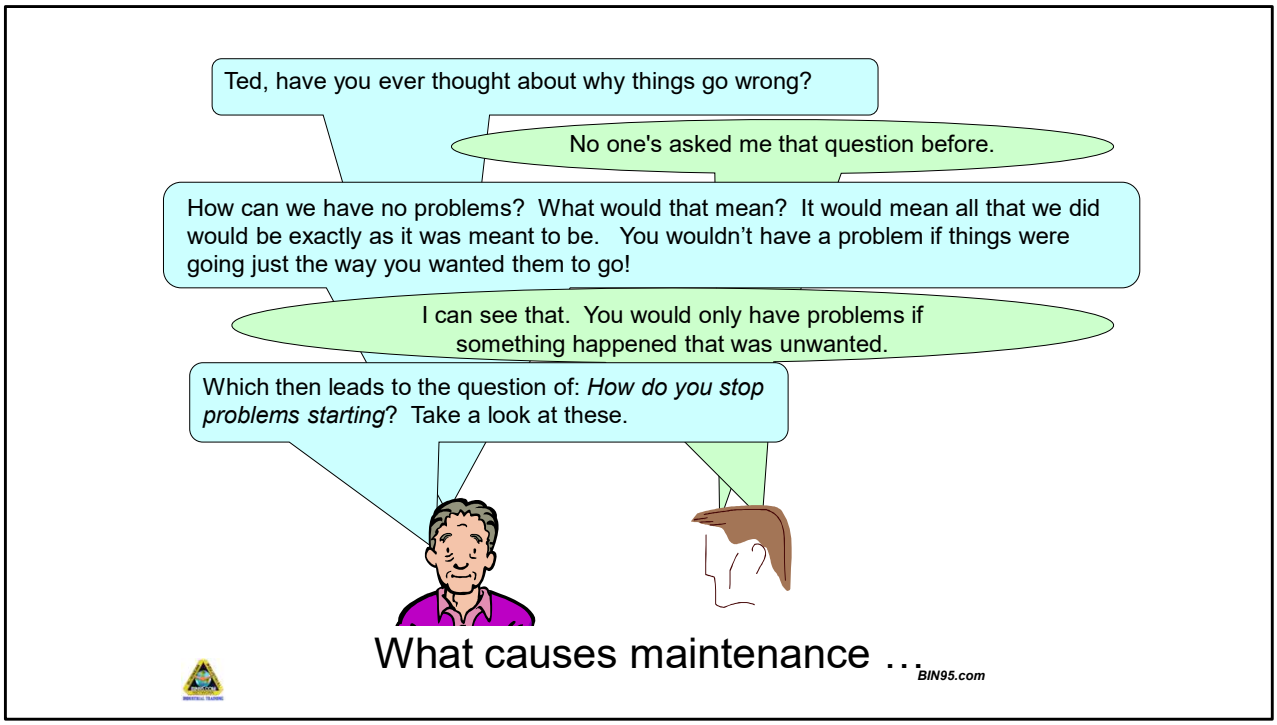
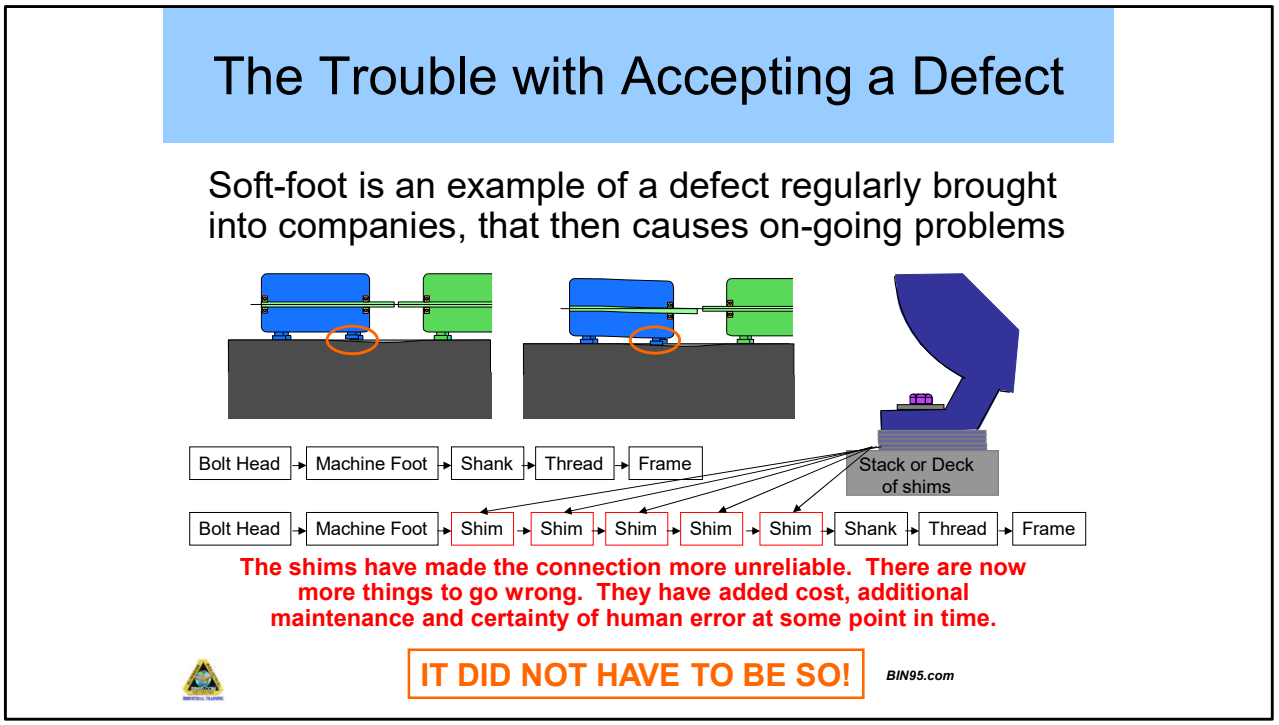
This is the final day of presentations during which Work Planning is completed and Job Scheduling is explained in detail.

Day 3 sample:



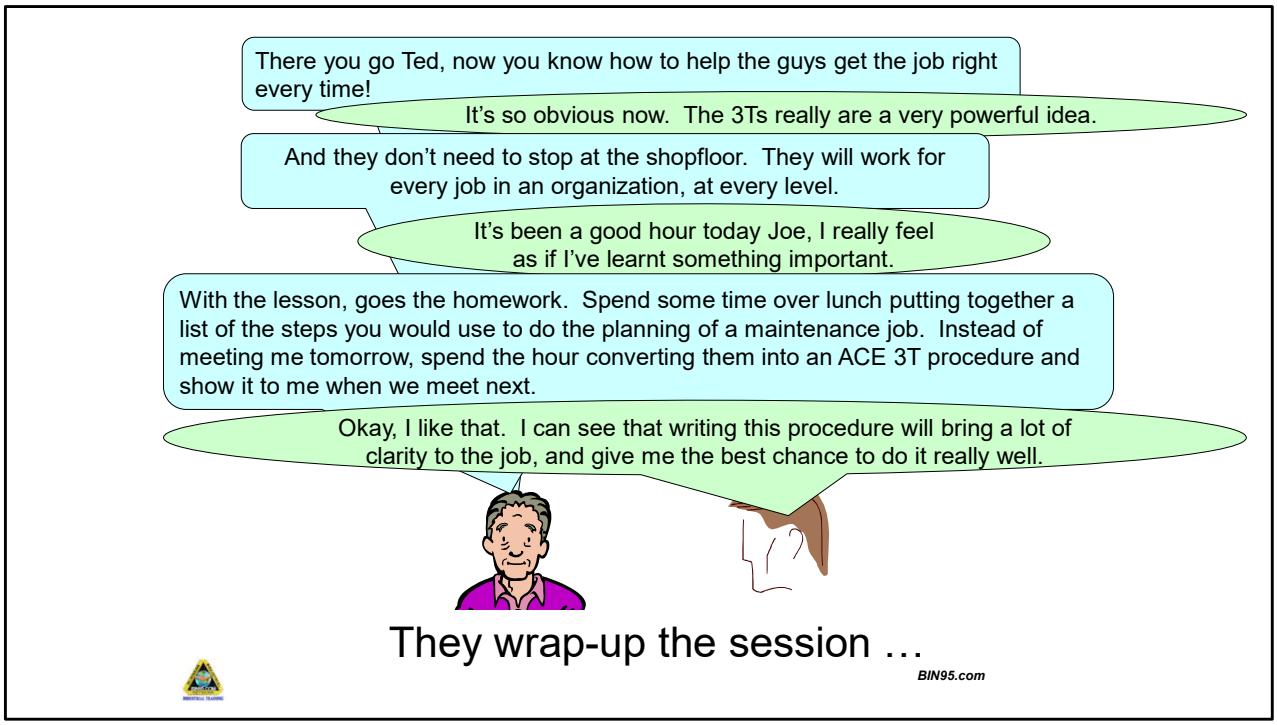


Defects enter into organizations by the thousands a year, unless the organization has put up defences. Once the problem is in your operation, you have to deal with it. In the slide, a soft-foot defect has been accepted into the plant. To correct it now requires the use of shims to fill the gap. Though this solves the problem, the shims have caused additional work. They also represent additional risk to the equipment, since if they are lost, it is highly likely the foot will be bolted down into the base frame without them, producing in a distorted and deformed machine. The parts in the machine will become deformed, be highly stressed, and fail faster.

By adding shims we may have stopped the deformation, but we have also reduced the reliability of the connection. From what should have been a bolted connection series configuration of five or six steps, the addition of the shims has turned it into a series process of 10 or 11 components.

The best answer to the risk of defects entering your business, is to ensure they are stopped before they cross your border. Put into place the necessary methods and precautions that ensure only high quality, high accuracy work is in your machinery from the outset.

Day 3 sample:



Day 3 sample:

DuPont KPI Expectations

Key Performance Indicators

	% Uptime	>90%
	Total Maintenance Cost (TMC) as a % of ERV	2% - 2.5%
* Reliability of Equipment	Reliability Professionals per Mechanic	1 : 12-18
	Mean Time Between Failure	Increasing >10% / year
	% Emergency Work	<10%
	Estimated Replacement Value (ERV) / Mechanic	$5MM - $8MM
	Training Days (Development/Refresher) / Mechanic	5 - 10 days / year
* Quality & Speed of Execution/Response	Maintenance Work Force Weeks Backlog	4 weeks
	% Planned Work	>80%
	Mechanics per Planner	20 - 27 : 1
	Schedule Compliance	>90%
* Maintenance Costs	Stores Investment as a % of ERV	<0.25%
	% Overtime	10% - 12%
	Maintenance Labour Cost as a % of TMC	20% - 25%
	Contractor Maintenance Labour Cost as a % of TMC	10% - 40%
* Prediction of Failure	% PPM Work	>20%
	% PPM Schedule Compliance	>95%
	% Emergency Work	<10%

Measure yourself against these!

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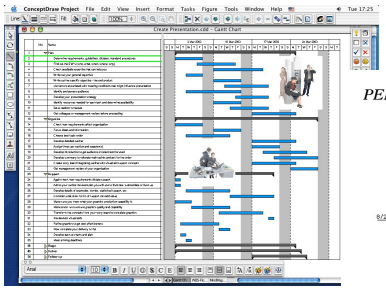
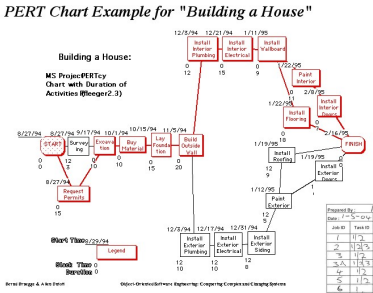
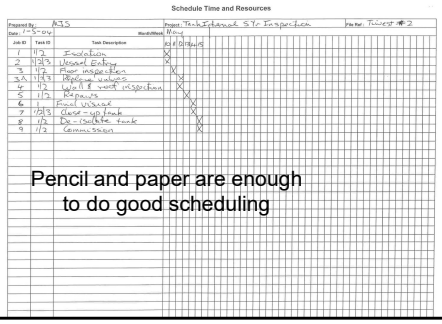
This list of KPIs is what DuPont used to rate the maintenance performance at their 170 + facilities around the world.

Day 3 sample:

Display the Schedule and Responsibilities







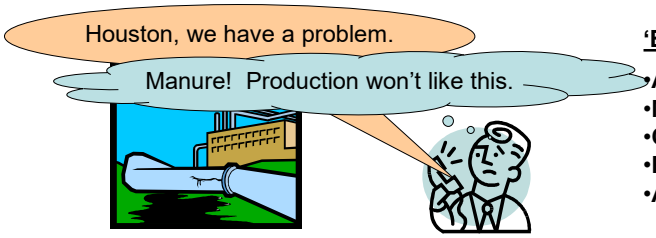
Show and tell people their responsibilities and tasks …
Give them feedback on their performance against plan …
so they can innovate, adapt or adjust when necessary.

Pencil and paper are enough to do good scheduling

Scheduling produces physical documents that guide people's decisions and actions. They are visual management tools and need to be displayed. Equally important is to use schedules to give feedback on performance against the plan. This lets people know how well things are going so that changes can be considered, approved and made if necessary.

Download Full
https://bin95.com/ppt-powerpoints/maintenance-planning-training.htm

Addressing On-site Issues and Changes in the Plan



'Emergency' Procedures

- **Assess the impact …**
- **Make it safe …**
- **Contain consequences …**
- **Rectify the problem …**
- **Address the cause …**

How does the issue affect the job plan? What will change?
Reschedule the work? Amend Work Order? Impact on Operation?

The unexpected must be the Exception, not the Rule, if you want > 95% Schedule Compliance

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At times a job does not go to plan from unintended, or unknown, complications that arise. The first consideration is to assess the impact of the disruption on the job and the knock-on consequence to Production. Address the issue as quickly as possible. Contain the damage, rectify the issue and then **act** to ensure it never happens again by adjusting your planning and scheduling procedures/checklists.