FEED FORWARD PUBLICATION

Best-practice maintenance, reliability, engineering & fixed asset management training
for process manufacturing plant & equipment maintenance, repair & operations crews.

TOPICS LIST showing 150 best-practice white paper articles covering process manufacturing plant maintenance and reliability, process plant maintenance engineering and enterprise fixed asset management.

Put them on your company's Intranet, Laptops and palm computers for all to use.

You can get individual articles and e-books to download immediately from www.funnelhead.info

Vol. No.	Edition No.	Title No.	Checklist and Article Titles List	Title Category	e-Book Listing
0	0	1	Bucket Elevator Design Notes	Bucket Elevator	14
0	0	2	How to present a winning financially justification for replacement equipment	Asset Management	3
1	1	1	Protecting bearings in dusty places.	Bulk Materials	2,4,14,17
1	1	2	Changing the service duty of a pump.	Fluid Mechanics	1,10,16
1	1	3	Flange bolting-up practices.	Plant Engineering	8,16
1	1	4	Open trickle chutes for wet and sticky products.	Bulk Materials	3
1	1	5	Maintenance costs capital moneys.	Asset Management	2
1	2	1	Tracking large rotating equipment.	Bulk Materials	2,11
1	2	2	Ultrasonic level detectors – Consider these experiences.	Instrumentation	5
1	2	3	Chemical corrosion.	Chemistry	15
1	2	4	Shaft sealing with a packed gland.	Pumping	1,16
1	2	5	Some quality paradigms are expensive.	Asset Management	3
1	3	1	Rotating tyre and trunnion wear.	Bulk Materials	2,12
1	3	2	Bitumen roadway repairs.	Civil Engineering	8
1	3	3	Grease – use the right one for the job.	Lubrication	4,18
1	3	4	Fault finding techniques.	Maintenance	3
1	3	5	The conitnuous improvement of Thomas Edison.	Asset Management	3
1	4	1	Vibration and out-of-balance equipment.	Mechanics	11,16
1	4	2	Get mechanical seals working properly.	Pumping	1,11,16
1	4	3	Effects of running centrifugal pumps on the right end of the pump curve.	Pumping	1,10,16
1	4	4	Pressure equipment inspections.	Process Equipment	8
1	4	5	Net positive suction head.	Pumping	1,16
1	5	1	How control valves operate.	Process Control	5
1	5	2	Bridging in silos and hoppers.	Bulk Materials	2,17
1	5	3	Glued and applied coatings.	Chemistry	15
1	5	4	Vibration and its control.	Mechanics	11,16
1	5	5	Benchmarking using Replacement Asset Value.	Asset Management	3
1	6	1	Corrosion in agitated conditions.	Process Equipment	15,16
1	6	2	Keep gearboxes running.	Mechanics	11
1	6	3	The importance of fit, tolerance and clearance.	Maintenance	11,16
1	6	4	Bucket elevator experiences.	Bulk Materials	2,14
1	6	5	Connection between nut torque and bolt tension.	Plant Engineering	8
1	7	1	Preheat for welds and when to apply it.	Welding	12
1	7	2	Can your spare parts be made locally?	Maintenance	3
1	7	3	Failure analysis of gearbox, fan, bearing & shaft.	Asset Management	3
1	7	4	Planning maintenance well.	Asset Management	3
1	7	5	World Class asset management practices.	Asset Management	3
1	8	1	Job types on work orders.	Maintenance	6

1	8	2	Isolation valves for different chemical services.	Process Equipment	5
1	8	3	Polyethylene - its properties and uses.	Plastics	13,15
1	8	4	Performance reviews.	Man Management	3
1	8	5	Maintenance Planning and Scheduling.	Maintenance	3
1	9	1	Valuable secrets in every work order report.	Maintenance	6
1	9	2	Welding plastics.	Plastics	13
1	9	3	Making stairs, walkways and platforms.	Plant Engineering	7,12
1	9	4	Radar level detectors.	Instrumentation	5
1	9	5	Agitator shafts steady bearing problems.	Process Equipment	4,11
1	10	1	Job descriptions tell tradesmen what to do.	Maintenance	6
1	10	2	Heating liquids by steam sparging.	Process Equipment	9
1	10	3	Separation and segregation of dangerous goods.	Safety	7
1	10	4	Differential pressure transmitters.	Instrumentation	5
1	10	5	Magnetic drive (magdrive) pump experiences.	Pumping	10
2	1	1	Equipment identification tags save time.	Maintenance	6
2	1	2	Sizing pipelines easily.	Fluid Mechanics	1
2	1	3	Confined space entry practices.	Safety	7
2	1	4	Magnetic flow meters.	Instrumentation	5
2	1	5	Angular contact bearing use.	Machinery	4
2	2	1	Preventative maintenance stops breakdowns.	Maintenance	3
2	2	2	Fiberglass construction and repairs.	Process Equipment	13,15
2	2	3	Shaft alignment on pumps.	Pumping	11,16
2	2	4	Control systems can trick operators.	Process Control	5
2	2	5	Shaft coupling selection issues.	Machinery	11,16
2	3	1	Use written work instructions.	Maintenance	6
2	3	2	Centrifugal pump cavitation.	Pumping	1,16
2	3	3	Stress in metals.	Metallurgy	12,15
2	3	4	Pneumatic actuator experiences.	Pneumatics	5
2	3	5	Locating pressure relief valves.	Process Equipment	8
2	4	1	Use words on work orders instead of code numbers.	Maintenance	6
2	4	2	How fluid flows in pipes.	Fluid Mechanics	1
2	4	3	Equipment and plant layout for improved maintenance.	Maintenance	7,18
2	4	4	Capacitance level probes.	Instrumentation	5
2	4	5	Spherical roller bearing use.	Machinery	4
2	5	1	Watch keeping – added value from operators.	Maintenance	3
2	5	2	Bronze – use the right one in the right place.	Metallurgy	11,12
2	5	3	Converting bearings from oil bath to greased lubrication.	Machinery	4,11
2	5	4	Temperature sensing elements.	Instrumentation	5,9
2	5	5	Changing out dust collector bags.	Bulk Materials	2,17
2	6	1	Components of an effective maintenance system.	Maintenance	3,6
2	6	2	Electric motor problems.	Electrical	11,18
2	6	3	Pulse jet dust collectors.	Bulk Materials	2,17
2	6	4	Plastic air pipelines for instruments and control valves.	Pneumatics	5
2	6	5	Peristaltic (Hose) pump problems.	Pumping	10
2	7	1	Have good valve decontamination practices.	Safety	7
2	7	2	Metal corrosion basics.	Chemistry	12,15
2	7	3	Vee-belt drives.	Machinery	11,18
2	7	4	Water hammer and its control.	Fluid Mechanics	5,9
2	7	5	Helical rotor pumps – benefits and limitations.	Pumping	10
2	8	1	Predictive maintenance – the way of the future.	Maintenance	3
2	8	2	Vertical bulk liquid steel storage tanks.	Process Equipment	8
2	8	3	Metal fatigue failure.	Metallurgy	12
2	8	4	Proximity switches.	Process Control	5
2	8	5	Chain drives.	Machinery	11,18
2	9	1	How accounting policies affect maintenance costs.	Maintenance	3
2	9	2	Safety shower installation.	Safety	7
2	9	3	Cooling tower design, operation and use.	Process Equipment	8,9
2	9	4	Static electricity basics.	Electrical	1,2,17
2	9	5	How O-rings work.	Hydraulics	4
2	10	1	What is Life cycle costing?	Plant Engineering	3
2	10	2	Steam trap operation and selection.	Plant Engineering	8,9
2	10	3	Hazardous areas for dusts and flammables.	Electrical	2,14,17
2	10	4	Using pH meters.	Instrumentation	5
2	10	5	Sealing threaded connections properly.	Plant Engineering	8

3	1	1	Air Compressor Operation & Care	Plant Engineering	8
3	1	2	Heat Exchanger Design & Use	Thermodynamics	8,9
3	1	3	Job Safety on Hazardous & Dangerous Work	Safety	7
3	1	4	Process Logic Controller (PLC) Basics	Process Control	5
3	1	5	Centrifugal Pump Life Extension - The Volute	Pumping	16
3	2	1	Gear Pump operation and maintenance	Pumping	10
3	2	2	Reducing wear in abrasive conditions	Bulk Materials	2,12,15,17
3	2	3	Tools to Focus on Plant Reliability	Maintenance	3
3	2	4	Using Liquid Manometers for Measuring Pressure	Fluid Mechanics	5
3	2	5	Oil - How clean does it have to be?	Lubrication	4,11
3	3	1	Spread Forces through Equipment & Reduce Breakdowns	Mechanics	11,12
3	3	2	Cyclone Separators - Low Cost Particle Removal	Bulk Materials	2,17
3	3	3	Reliability Centered Maintenance (RCM) - What is it?	Maintenance	3
3	3	4	Electrical Motor Current Protection Saves Your Plant	Process Control	5,11,14,18
3	4	1	Setup Tank Agitators Gearboxes for a Long-life at Low Cost.	Process Equipment	11
3	4	2	Holiday Detection in Above-ground Tank Bottom Lining Inspection.	Process Equipment	8
3	4	3	Root Cause Analysis Answers Your Problems	Maintenance	3
3	4	4	Control Loops - Masters of Automatic Control	Process Control	5
3	4	5	Gluing Plastic Pipes so You Can Trust Them	Plastics	13
3	5	1	Is your wet scrubbing tower working?	Process Equipment	8
3	5	2	Metering & Dosing pump Operation	Process Equipment	10
3	5	3	Flow Meters - Don't ever believe what they tell you	Instrumentation	5
3	5	4	Plant Compressed air waste reduction	Pneumatics	8
3	6	1	Non-destructive testing of welds	Welding	12
3	6	2	Dust control concepts	Bulk Materials	2,14,17
3	6	3	Electric motor variable speed drives operation	Process Control	5,18
3	6	4	Rolling bearing vibration detection	Condition Monitoring	11,18
3	7	1	Rotating shafts under bending stress	Strength of Materials	11,12
3	7	2	The Big Bang - Starting and stopping equipment under load.	Mechanics	11
3	7	3	Orifice plate flow meter measurement	Instrumentation	5
3	7	4	6 Secrets of trouble-free lubrication success	Lubrication	4,18
3	8	1	Moving slurries about	Pumping	1
3	8	2	Belt conveyor tuning	Bulk Materials	2,14
3	8	3	Effect of process changes on electric motors	Process Control	5,16,18
3	8	4	Pump life extension - the impeller	Pumping	16
3	9	1	Heat Transfer Baics	Thermodynamics	9
3	9	2	Fired Packaged Boiler Basics	Boilers	8,9
3	9	3	Conductivity meter operation & use	Process Control	5
3	9	4	Lubrication cleanliness & filtration	Lubrication	4,11
3	9	5	The 9 great benefits of a CMMS	Asset Management	6
3	10	1	Mechanical level sensor types and use.	Instrumentation	5
3	10	2	Membrane and leaf filtration overview.	Process Equipment	8
3	10	3	Dust bag selection for bag houses.	Bulk Materials	2,17
3	10	4	Tracking belts on elevators and conveyors.	Bulk Materials	2,14
3	10	5	Budgets - what to do and how to use them.	Asset Management	3