



Steam Boiler Maintenance Checklist

10 planned preventive maintenance tasks · Free PDF from PM Assist

A practical starting point for planned preventive maintenance. Always refer to the manufacturer's O&M manual and site-specific requirements.

Functional Checks

- ☐ Carry out blowdown (bottom and surface) and confirm correct operation
- ☐ Check and record TDS / water treatment chemistry
- ☐ Blow through and check the gauge glass for clear, accurate level indication
- ☐ Inspect the burner, combustion, and flue (fired boilers)
- ☐ Check feedwater pumps, hotwell, and condensate return
- ☐ Verify pressure controls, gauges, and operating limits

Safety Checks

- ☐ Test water level controls and low-water alarms/cut-outs
- ☐ Test safety/relief valves lift at the correct pressure

Record Keeping

- ☐ Confirm the written scheme of examination is current and inspections are up to date
- ☐ Record water tests, blowdown, safety valve tests, and combustion in the log

Maintenance Frequency

Daily

- Test water level controls
- Blowdown gauge glass and check level
- Check TDS / blowdown
- Confirm pressures normal

Weekly

- Test low-water alarms/cut-outs
- Check safety valve and feed system
- Combustion observation

Annually

- Thorough examination by competent person (PSSR)
- Full service and combustion analysis
- Safety valve set-pressure test
- Internal inspection