

High risk work licence classes

Pressure equipment

Steam turbine operation (TO)

This licence authorises the operation of a steam turbine that has an output of 500 kilowatts or more and includes one of the following:

- multi wheeled
- capable of a speed greater than 3600 revolutions per minute
- has attached condensers
- has a multi staged heat exchange extraction process.

Steam turbine operation is the safe running and monitoring of a steam turbine to produce power or mechanical energy using pressurised steam. Because steam turbines operate under high pressure and temperature, careful control and supervision are required to ensure the turbine runs efficiently and safely. If a fault occurs such as a pressure failure, mechanical malfunction, or incorrect operation it can result in serious injury, explosions, or significant damage, which is why steam turbine operation focuses on strict procedures, constant monitoring, and effective response to abnormal conditions.

A person carrying out steam turbine operation typically:

- starts up and shuts down the steam turbine following procedures
- monitors steam pressure, temperature, and flow
- controls turbine speed and output
- checks gauges, alarms, and safety systems
- identifies and responds to abnormal conditions
- coordinates with boiler operators to ensure correct steam supply
- carries out routine checks and basic maintenance.

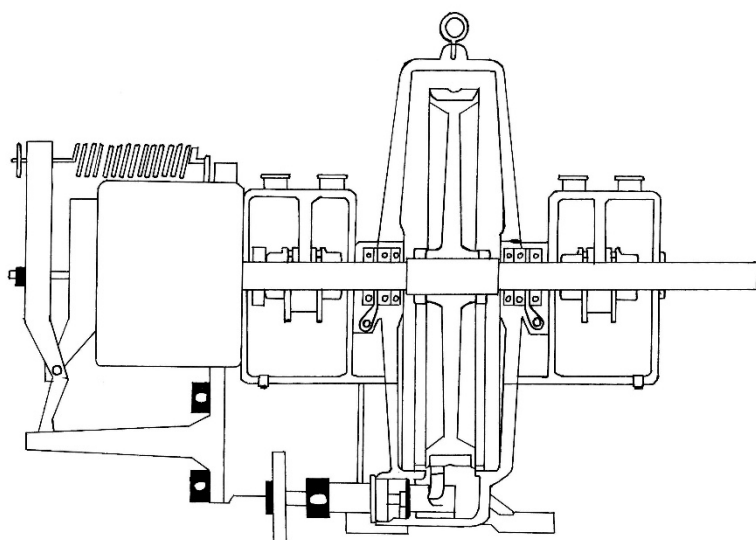


Figure Turbine

Further resources

Visit our website for information about other [High risk work licence classes](#).

Acknowledgement

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