



Queensland Health

Toowoomba Hospital

Installation of Modular Operating Theatre Platform

Queensland Health provides a range of services to achieve good health for all Queenslanders. Toowoomba Hospital is a major regional hospital built in 1880 and is heritage listed. The hospital serves around 300,000 people in the Darling Downs area and the population is expected to grow to 386,000 by 2036. The hospital staff have been caring for their community in a facility where locals have both been born and then treated throughout their lives.

-  Toowoomba, Queensland
-  Operating theatre platform for the installation of a modular theatre and construction of a new linkway into the Theatre Department

Project scope

The hospital required a new operating theatre to increase capacity of the Theatre Department to meet the current demand. The project also required modifications to the existing fire services and fire compartments to comply with current standards.

Wiley delivered a 400m² structural steel supporting platform, built near existing HV and gas services, to support the module. A new enclosed link corridor provided direct patient transfer from the existing surgical suites which, along with the adjacent MRI machine, were operating during the build. This involved demolition, reconfiguration, and refurbishment of the surgical access.

At all times, Wiley ensured hygiene, noise and vibration were well managed. Many unknown in-ground services were discovered, including redundant and live HV and gas. Wiley proactively provided solutions to these issues and carefully managed the works to ensure hospital operations were maintained.

Business value to client

Wiley worked with Queensland Health to install the customer-supplied modular operating theatre, complete with HEPA filtration and medical gas services. Applying in-depth experience in delivering the modular operating theatre in high-hygiene, operational and public environments, Wiley delivered the project six weeks ahead of the contracted programme.

To ensure all key stakeholders were aware of the project requirements and objectives, Wiley met with them daily. Queensland Health and Toowoomba Hospital achieved industry compliance and the highest standard of operational efficiencies, hygiene control and workplace health and safety, due to this high level of collaboration and communication.

Fire services upgrades including fire compartmentation, fire egress and fire detection systems, were required for the installation of the new modular theatre. These works also occurred in the operational stroke, pharmacy and renal wards. Very careful consideration was given to stakeholder engagement, ensuring key construction activities were planned around operational activities. The services works were effectively planned to minimise impact on the clinical services adjacent and above.

Partners and consultants

AG Rigging & Constructions | A1 Passive Fire – Passive Fire Services | Livewire Electrical | TNT Roofing | Winfab Metalwork | Byrne Surveyors | Fazen Scaffolding | David Dow Landscaping | Combined Group | Auto Egress Automatic Doors | Southern Cross Briklaying | Dreamcoat Painting | Haslab - Medical Gas



Maintain critical services



Complex services



Live operational site



High collaboration and engagement

