



Qualification description

Pipe Fitter aligned to the MEM31922 Certificate III Engineering – Fabrication Trade

This qualification defines the skills and knowledge required of a Pipe Fitter within the Shipbuilding & Sustainment industries.

The qualification has been specifically developed to meet the needs of apprentices in the pathway Pipe Fitter aligned to the Certificate III Engineering – Fabrication Trade.

This qualification must be undertaken through a Training Contract or through formal trade recognition assessment processes.

The skills associated with this qualification are intended to apply to a range of pipe fitting fabrication & fitting activities within the Shipbuilding Sustainment and Build activities.

This qualification is designed to provide an industry recognised skills profile related to trade work as a Pipe Fitting.

Assessment of some units of competency must, where indicated, include evidence of the candidate's performance in a functioning workplace where there is a sufficient range of appropriate tasks and materials to cover the scope of application of those units. All outcomes must reflect the standard of performance inherent in the job.

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Entry requirements

There are no entry requirements for this qualification.





Training Plan

Pipe Fitter aligned to the MEM31922 Certificate III Engineering – Fabrication Trade

As a condition, the South Australian Skills Commission has mandated both the core and elective units of competency or their equivalent for this pathway as listed below. An apprentice training in this trade must undertake all mandated units of competency listed below, or their equivalent.

National Code	Unit Title	Prerequisites
MSMENV272	Participate in environmentally sustainable work practices	Nil
MEM13015	Work safely and effectively in manufacturing and engineering	Nil
MEM16006	Organise and communicate information	MEM13015
MEM11011	Undertake manual handling	MEM13015, MEM16006
MEM14006	Plan work activities	MEM13015, MEM16006
MEM12023	Perform engineering measurements	MEM13015, MEM16006
MEM12024	Perform computations	MEM13015, MEM16006
MEM18001	Use hand tools	MEM11011, MEM13015, MEM16006
MEM18002	Use power tools/ hand held operations	MEM11011, MEM13015, MEM16006
MEM05005	Carry out mechanical cutting	MEM11011, MEM13015, MEM16006, MEM12023, MEM18001
MEM16008	Interact with computing technology	MEM13015, MEM16006
MEM09002	Interpret technical drawing	MEM12023, MEM12024, MEM13015, MEM16006
MEM05012	Perform routine manual metal arc welding	MEM11011, MEM13015, MEM16006
MEM05050	Perform routine gas metal arc welding	MEM11011, MEM13015, MEM16006
MEM05049	Perform routine gas tungsten arc welding	MEM11011, MEM13015, MEM16006
MEM05007	Perform manual heating and thermal cutting	MEM09002, MEM11011, MEM13015, MEM16006, MEM12023
MEM05085	Select welding processes	MEM13015, MEM16006





National Code	Unit Title	Prerequisites
MEM05052	Apply safe welding practices	MEM13015, MEM16006
MEM05090	Weld using manual metal arc welding process	MEM11011, MEM13015, MEM16006
MEM05091	Weld using gas metal arc welding processes	MEM05050, MEM05085, MEM05052, MEM09002, MEM11011, MEM14006, MEM12023, MEM12024, MEM13015, MEM16006, MEM18001, MEM18002
MEM05092	Weld using gas tungsten arc welding processes	MEM05049, MEM09002, MEM05085, MEM05052, MEM11011, MEM14006, MEM12023, MEM12024, MEM13015, MEM16006, MEM18001, MEM18002
MEM12007	Mark off/out structural fabrications and shapes	MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006
MEM18055	Dismantle, replace and assemble engineering components	MEM09002, MEM11011, MEM12023, MEM13015, MEM16006, MEM18001, MEM18002
MEM17003	Assist in the provision of on-the-job training	MEM13015, MEM16006
MEM18003	Use tools for precision work	MEM11011, MEM12023, MEM13015, MEM16006, MEM18001, MEM18002
MEM12026	Perform advance trade calculations in a manufacturing, engineering or related environment	MEM12024, MEM13015, MEM16006
MEM05037	Perform geometric development	MEM09002, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006
MEM05038	Perform advanced geometric development - cylindrical/rectangular	MEM05037, MEM09002, MEM12023, MEM12024, MEM12026, MEM13015, MEM14006, MEM16006
MEM10010	Install pipework and pipework assemblies	MEM09002, MEM11011, MEM12023, MEM13015, MEM16006, MEM18001, MEM18002





National Code	Unit Title	Prerequisites
MEM05089	Assemble fabricated components	MEM05005, MEM05007, MEM05085, MEM05052, MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001, MEM18002 & One Int welding unit