Build a solid career in Building and Construction

BUILDING AND DESIGN

Diploma of Building Design

This qualification applies to building designers who undertake building design projects covered by the Building Code of Australia (BCA), except Construction Type A buildings. Building designers may specialise in residential projects, including new buildings, heritage restorations and additions or renovations; or they may also undertake commercial and industrial projects, such as factories, motels, offices, restaurants, retail or service outlets and warehouses.

Employment options: building designer, construction designer, architectural draftsperson, project manager

CONSTRUCTION

Certificate IV in Building & Construction (Building)

Builders and managers of small to medium-sized building businesses will gain skills and knowledge to coordinate the overall construction of low-rise buildings, which entails selecting contractors, overseeing the work and its quality and liaising with clients. The course covers the social, environmental and legal aspects of residential construction projects, building construction, quantities and estimating, management, setting out, site safety and computing. With your construction trades certificate and successful completion of this course you will meet the training requirements for the issue of a NSW Building Contractor’s Licence by Fair Trading NSW.

Employment options: builder, construction manager

Certificate III in Carpentry

Carpenters generally achieve their qualification as an apprentice. You will be employed to work alongside a tradesperson and attend classes at the Northern Sydney Institute. While the course is primarily aimed at the residential sector of the building industry working on new dwelling construction, renovations and maintenance, it can be customised to address specific skill requirements of most building and construction or allied enterprises. Apprenticeships usually take three years to complete.

Employment options: carpenter, carpenter and joiner

Certificate II in Construction Pathways

To start a career in the general construction industry (plumbing excepted) you can enrol in this qualification and learn the basic skills and knowledge relevant to construction, maintenance and renovation practices.

Employment options: tradesperson’s assistant

Certificate I in Construction

This qualification enables you to apply to Fair Trading NSW for a minor trade work licence. You will learn skills which specifically meet the needs of the residential sector of the industry, covering the entry level skills and knowledge relevant to minor residential trade work. You must have an Office of Fair Trading contractor licence or employ the holder of a qualified supervisor certificate to contract, subcontract or advertise to do residential building work where the labour and materials content is more than $1,000.

Employment options: handyperson – minor maintenance/cleaning

PLUMBING

Diploma of Hydraulic Services Design

(entry – Certificate IV in Plumbing – Hydraulic Services Design)

Hydraulic design consultants provide specialist advice and design plumbing and services systems for residential and commercial buildings. The work may involve sanitary drainage, cold and hot water supply; rainwater and stormwater drainage, gas services, fire hydrant and hose reel services, commercial, residential and domestic fire sprinklers and domestic waste water management. When you finish the course, you should be able to run a modern plumbing services design business.

Employment options: hydraulic design consultant

Certificate IV in Plumbing (Hydraulic Services Design)

Hydraulic designers prepare designs, specifications and related drawings for domestic and commercial pipework systems such as sanitary drainage, hot and cold water supply, rainwater and stormwater drainage, gas services, fire hydrant and fire sprinklers and domestic waste water management.

Employment options: specialist hydraulic designer

Certificate IV in Plumbing (Operations Stream)

Manage a plumbing contracting business, design and install gas systems, water supply and waste disposal systems to domestic, commercial and industrial buildings in accordance with the appropriate building codes and regulations.

Employment options: foreman plumber, plumbing contractor, fire services supervisor, air conditioning technician

Certificate III in Plumbing

Working alongside a licensed plumber, plumbers install and repair hot and cold water systems, sewage and rainwater disposal pipes, gas systems and repair roofing gutters.

Employment options: plumber, plumber and drainer, plumber and gasfitter, gasfitter, roof plumber

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