

Construction

What construction professionals and workers do

- Plan, build and develop buildings, roads and other infrastructure
- Work in residential, commercial or heavy industrial construction
- Collaborate with a large team to complete a construction according to specifications, on time and within budget
- Become a consultant
- Open your own business

Choose these subjects

- Maths
- Science
- English
- Computer Applications Technology (useful)
- IT (useful)
- Art (useful)
- Accounting (useful)
- Engineering Graphics & Design (useful)
- Technical Drawing (useful)

Professional bodies

- South African Council for the Architectural Profession
Tel: 011 479 5000
www.sacapsa.com
- Engineering Council of South Africa
Tel: 011 607 9500
www.ecsa.co.za
- The South African Institute of Architects
Tel: 011 782 1315
www.saia.org.za
- Construction Education and Training Authority (Ceta)
Tel: 011 265 5900
www.ceta.org.za
- Master Builders South Africa
Tel: 011 205 9000
www.mbsa.org.za
- Manufacturing, Engineering and Related Services SETA – MERSETA
Tel: 010 219 3000
www.merseta.org.za

Skills you'll need

- Good spatial skills
- Logic
- Creativity (in design and architecture roles)
- An understanding of habitat, natural environment and human behaviour (in design and architecture roles)
- Mathematical skills (on a design, planning and management level)
- An interest in engineering, construction and the built environment
- Good problem-solving skills
- A desire to work outdoors (most of the time, on an artisan level)
- Willingness to work in a variety of locations
- Ability to work well in a team
- Understanding of business principles

Construction

Qualifications

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| ● Trade certificates | ● National Diploma: Architectural Technology | ● Baccalaureus Technologiae: Engineering: Civil Urban Engineering (BTech – Urb) |
| ● Certificate in Architecture (draughtsperson) | ● Bachelor of Architectural Studies | ● Baccalaureus Technologiae: Engineering: Civil Water (BTech – Wat) |
| ● Senior Certificate in Architecture | ● Bachelor of Architectural Studies with Honours | ● BSc Civil Engineering |
| ● N.Dip (Diploma in Architecture) | ● National Diploma: Engineering: Civil | ● BSc Construction Studies |
| ● BTech (Bachelor of Architectural Technology) | ● Baccalaureus Technologiae: Engineering: Civil Construction Management (BTech – Com) | ● BSc Landscape Architecture |
| ● MTech (Master of Architectural Technology) or MTech (Professional) | ● Baccalaureus Technologiae: Engineering: Civil Environmental Engineering (BTech – Env) | ● BSc Interior Architecture |
| ● BSc (Arch) – Bachelor of Science (Architecture) | ● Baccalaureus Technologiae: Engineering: Civil Structural (BTech – Str) | ● BSc Construction Management |
| ● BArch (Hons) – Honours in Architecture | | ● BSc Quantity Surveying |
| ● MArch (Prof) – Master's in Architecture (Professional) | | ● BSc Engineering and the Built Environment |
| | | ● Master of the Built Environment (Housing) |

Career options

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|------------------------------|-----------------------------------|
| ● Architect | ● Quantity surveyor |
| ● Architectural technologist | ● Site agent |
| ● Draughtsman | ● Roads and earthworks site agent |
| ● Civil engineer | ● Health & safety manager |
| ● Landscape architect | ● Foreman |
| ● Site engineer | ● Junior foreman |
| ● Mechanical engineer | ● Bricklayer |
| ● Electrical engineer | ● Carpenter |
| ● Structural engineer | ● Crane operator |
| ● Waste consultant | ● Electrician |
| ● Water engineer | ● Glazier |
| ● Estimator | ● Mason |
| ● CAD technician | ● Plasterer |
| ● Contracts director | ● Plumber |
| ● Contracts manager | ● Rebar hand |
| ● Project planner | ● Millwright |
| | ● Shutter hand |
| | ● Truck driver |
| | ● Welder |
| | ● Interior designer |

Useful contacts

Construction Industry Development Board
Tel: 012 482 7200 www.cidb.org.za
Association of Construction Health and Safety Management
Tel: 021 914 3710 www.achasm.co.za