



**CIVIL CONTRACTORS
FEDERATION**

The Voice of the Industry

CIVIL ENGINEER

IN CIVIL CONSTRUCTION

Join a growing and rewarding industry,
with excellent income potential.



CREATIVE THINKING

Civil Engineers are collaborators who juggle creative design, analysis and applied science to construct, and problem solve all things civil.

CIVIL ENGINEER

What will I be doing?

You will design, construct, and maintain the roads, dams, pipelines, airports, bridges, railways, tunnels, structures, and the utilities our world and society rely upon.

You will:

- create graphical representations of civil structures
- design civil structures or systems
- direct construction activities
- inspect facilities or sites to determine if they meet specifications or standards
- test characteristics of materials or structures
- survey land or bodies of water
- estimate technical or resource requirements for development or production projects
- estimate operational costs
- recommend technical design or process changes to improve efficiency, quality, or performance
- evaluate technical data to determine the effect on designs or plans
- coordinate safety or regulatory compliance activities
- analyse operational data
- investigate the environmental impact of projects
- incorporate green features into the design of structures or facilities
- develop technical methods or processes
- explain project details to the public
- prepare proposal documents
- implement design or process improvements.

Tasks & transferable skills

- Construction knowledge
- Creative and practical problem solving
- Quality control and inspections
- Science and mathematics
- Business operations and financial activities
- Performance evaluation and efficiency improvement

Required level of training

To be a Civil Engineer, you will need a university degree.

There are a lot of short courses can be done through the Institute of Civil Infrastructure, Engineers Australia and others, to support your career progress.

Core competency level (out of 10)

- Digital engagement 8 High
- Numeracy 7 Intermediate
- Teamwork 5 Intermediate
- Writing 6 Intermediate
- Reading 7 Intermediate
- Learning 6 Intermediate
- Problem solving 6 Intermediate
- Oral communication 6 Intermediate
- Planning & organising 7 Intermediate
- Initiative & innovation 7 Intermediate

To find out how you can start your career as a Civil Engineer go to www.ccftas.com.au/job/engineer

Questions?

Contact the Civil Contractors Federation of Tasmania:

 (03) 6159 6157

 highvisarmy@ccftas.com.au

 www.ccftas.com.au

**The
High Vis
Army**

A Tasmanian
Government
Initiative