

Public Works Foundations Program



Course Outline

Development Engineering Foundations

What is the Development Engineering Foundations course?

This course is one of eight **Public Works Foundations Program** courses curated by IPWEA Victoria to develop the skills of public works professionals in key responsibility areas. Each course comprises four 4-hour sessions presented over consecutive weeks.

Course Overview

Development engineering is a specialised public works discipline with a responsibility to optimise land and property development. A civil engineering skillset is vital, along with an understanding of the development process, community expectations and public sector accountability. This course bridges the gap between engineering theory and public practice.

Modules

Session 1: **What is Development Engineering?**

Session 2: **The Planning Process**

Session 3: **The Design Process**

Session 4: **The Construction Process**

Learning Objectives

After completing this course, participants should have an:

- Understanding of what the land development process entails
- Understanding of the various types of development
- Appreciation of the potential impact of developments on adjacent/nearby property
- Appreciation of the challenges of rural vs urban/metro land development characteristics
- Understanding of the land subdivision process
- Appreciation of the value of community engagement and media involvement
- Appreciation of the relevant legislation and standards that control the land development process
- Understanding of Planning Schemes and the planning permit process
- Appreciation of the relevance of municipal governance in the land development process such as Council Plan etc.
- Understanding of the design process and implications of climate change
- Understanding of the construction process, typical challenges and the importance of final handover and quality control

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Delivery

The course is presented online to maximise accessibility for regional & interstate participants.

Facilitator

Paul Austin is a highly experienced Civil Engineer with over 40 years' experience in local government and consulting. He specialises in surveying, planning, design, environmental studies, land development and local government affairs. Throughout his career, he has held management roles at Fisher Stewart, Earth Tech and Maunsell AECOM, where he supervised teams and managed its Geelong office. Paul's expertise in project management and strategic planning has led to successful outcomes for numerous projects and clients.

Before joining the consulting industry, Paul served as the Design Manager at the City of Greater Geelong, overseeing various design projects and documentation. Throughout his career he has actively engaged with different organisations, councils and shires, gaining valuable experience in project management, business planning, financial performance assessment and staff selection.

Who should enrol?

This course has been developed for engineers, technical officers, coordinators and supervisors engaged with the design and construction of community infrastructure.

CPD and Badge

The course provides 16-hours of professional development. A digital badge is provided on completion for social media application and Public Works Foundations Program graduates will be awarded a **Certificate of Public Works Engineering**.

Course Partner

