

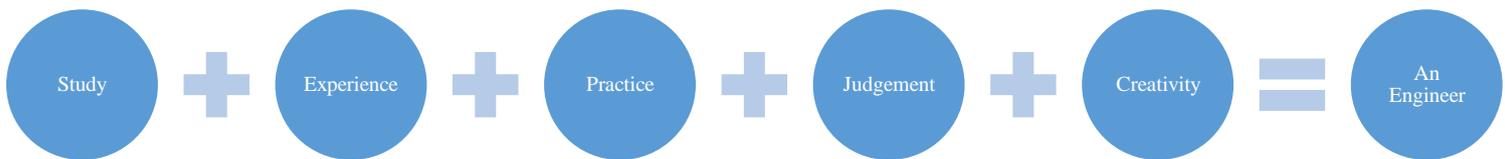
Engineering and Society

It develops through study and experience combined with creativity, good judgement and practice. Developing to advance many aspects of our lives; these advancements can be good or bad.

Engineering Design

Designs and proposals that are developed are subjected to many influences and respond to the effects of;

- Customer's needs
- Legal requirements/standards
- Societal expectations
- Cost benefit analysis



Impacts on society

Engineering is much more than just the nuts and bolts, it has a social element too.

It has a purpose and responsibility within our society – to improve aspects of our lives while still remaining within constraints and standards to produce a practical outcome/product.

Engineering has effects on: culture and society, the economy and environment. All of these effects can range from local to international.

Engineering Responsibility

Engineers as individuals should comply with a Code of Conduct or Ethics. Many of which outline and explain the following;

- Ethical Behaviour
- Competent Behaviour
- Innovative Practice
- Engineering Excellence
- Equality of opportunity
- Social Justice
- Sustainable development

Organisations have a similar code that they have to adhere to called 'Corporate Social Responsibility'.

There are eight base principles within this that need to be addressed: business conduct, clients, human resources, stakeholders, health and safety, community, environment and human rights.

All 8 of these are important and common sense.

Engineering and Societal Development

Engineering can play a major part in developing countries/societies in regards to the following issues.

- Reducing poverty through job opportunities
- Advancing agriculture practices to help relieve hunger.
- Increasing quality of life by providing basic amenities (access to clean water, fresh food, healthcare etc.).
- Economic and development

There are already many organisations/institutions/programs that are investing in developing countries.

Examples include Engineers without borders Australia and Registered engineers for Disaster Relief. Both organisations provide help where they are needed.

Whether the need arises due to natural disasters or simply helping a developing country or area etc. by connecting capable personnel to those in need.