

**Available to:** Years 10, 11 and 12  
**Length:** 1 semester (16 weeks)  
**Accreditation:** 10 SACE Credits - Stage 1

Architectural Drafting requires the application of technical and problem solving skills to produce effective and attractive designs for the construction of buildings. Architectural professionals produce plans and specifications containing dimensions, materials, and fixings details used in the construction of the final structure. These documents are the basis for the project pricing, contract and the workers who will actually build the proposed development. Architects are also required to liaise with the client, consulting engineers and building authorities during the production and approval process of the plans.

The Architectural Drafting course introduces students to four aspects of the Architectural Profession. Starting with the technical manual drafting of a residence in orthographic projection, this will be followed by a component of sketching, design and Computer Aided Design (CAD) projects.

**Aspects to consider:**

- Students gain SACE credits and National Accreditation
- Students will read architectural drawings and use a scale rule to determine sizes.
- Students will manually draft a plan, section & elevation of a typical house.
- Students will be given a brief introduction to hand sketching and be set a design project to be sketched in proportion.
- Several tutorials will be undertaken to train students in the production of 3D CAD drawings and digital rendering using SketchUp V8.
- Students will gain valuable skills related to the practice of Architecture and SACE units with National Accreditation.
- The course will help students to further their interest in the Architectural Industry and assist them in making a constructive career choice.
- Students must be prepared to undertake their study once a week in an after school hour instruction lesson (3 hours) conducted off campus in conjunction with the partnership schools
- Competency based assessment will be undertaken in a simulated work place environment in the classroom.
- **Equipment.** *The following items will be required; An HB, 2H pencil & sharpener, a set of three retractable fine lead pencils (0.35, 0.5 & 0.7mm diam.), soft white eraser and a scale rule (Staedtler) with the scales of, 1:100, 1:50, 1:20, 1:1.*
- Cost (see your VET Coordinator)

**Content:**

➤ CPCCCM2001A	Read and interpret plans and specifications	36 hours
➤ CPCCVE1002A	Undertake a basic computer design project	36 hours
➤ BCGVE2001B	Produce Construction Drawings	24 hours

**Assessment:**

Practical manual drafting projects, sketching and the production of CAD drawings under supervision.

**Qualifications gained:**

Three units from Certificate I in Construction CPC10108

**Course pathway:**

Certificate IV in Residential Drafting & Diploma of Building Design & Technology.

Note that the drawings produced in the Architectural Drafting course can be used to assist in gaining entry to the above courses.

**Contact:** School VET Coordinator