



APPROVED INSTALLER PROGRAM:

An Introduction to Paving

Course overview

This course teaches participants the correct method of installing and maintaining clay and concrete segmental pavements.

Participants will be taught need-to-know design detailing and the construction process of pavement systems. It has been designed for the benefit of new pavers or for those who have not undertaken formal training.

Graduates of this program will be able to install small-scale pedestrian pavements, residential pavements, driveways, and suburban road installations subject to minor traffic.

The Approved Installer Program will equip pavers with the knowledge to install high quality segmental pavements that last the test of time.

Assessment

The introductory course will require both a theoretical and a practical assessment. Interim accreditation will be granted to a participant if they pass the theory test, and accreditation will be confirmed if they complete the practical assessment requirements within six months of the course.

Theory

The theoretical component will consist of a set of questions that focus on the main points of the module, with a priority on installation techniques.

Participants will be given the test as a take-home exam, which must be completed over a weekend.

As the participants will have ready access to all of their notes, they will be required to achieve a mark of 85% in order to pass.

Practical

Participants with interim accreditation will be required to submit evidence of their work within 6 months of completing the course, in order to demonstrate their practical.

Evidence will be in the form of a written report that includes photos and/or videos displaying the installation process, and a reflection on their work, prompted by a set of questions.

Participants who fail to complete the practical component within six months will have to sit the theory component again.

Session 1: 9:00 - 9:50

Pavers & Pavements – Explore different paver, base, pavement types and the appropriate use for each.

The Benefits of Pavers – Key advantages that paving (including clay and concrete segmental paving, flag paving and permeable paving) has over other pavement materials.

Assessing the Pavement Requirements – Understanding the nature of sites, the quality of the substrate and the type of traffic likely to use the pavement.

Safety Concerns and Risks - Understanding the risks that are associated with cutting, transporting and handling pavers.

Morning Tea: 9:50 – 10:00

Session 2: 10:00 – 11:20

Design – Understanding the considerations that go into an effective pavement design, as well as how to use CMAA's DesignPave software for designing segmental pavements.

Site Supervision – Knowledge of how site supervisors manage projects and their responsibilities.

Site Preparation – Knowledge of site specific requirements before construction.

Construction & Detailing – How to prepare the substructure, drainage systems, bedding, and laying patterns. Knowledge of cutting pavers, using a saw or disc cutter, paver compaction, and how to pave in all scenarios.

Session 3: 11:20 – 12:20

Preventing & Managing Failures – Explores the signs that suggest a pavement has been installed incorrectly and provides suggestions on how best to avoid these problems.

Maintenance – Explores maintenance procedures used to ensure the integrity of pavements. This information can be communicated to councils and other clients to help them manage their pavements.

Lunch: 12:20 – 13:00

Session 4: 13:00 – 15:00

Sustainable Paving - Explores how to build sustainable infrastructure through pavements. The session will focus on how to design and construct permeable pavements. The session will also focus on how permeable pavements reduce the urban heat island effect, improve stormwater management and prevent tree root uplift.