

# APPROVED INSTALLER PROGRAM:

## The Advanced Installer Module

### Course overview

The advanced course is a continuation of the Concrete Masonry Association of Australia's (CMAA's) Module 1: An Introduction to Paving. The CMAA recommends participants complete the Introduction to Paving module before undertaking the advanced module. The introductory module teaches the fundamentals of segmental pavements, including need-to-know design detailing and the construction process of pavement systems. The contents of the introductory module are considered assumed knowledge and will only be revised briefly during the advanced module.

The advanced course will expand on participant's pre-existing knowledge of clay and concrete segmental pavement characteristics, specifications and design principles. The course will introduce participants to traffic estimation, geotechnics design considerations, failure prevention and management techniques used in industry.

Upon completion of this program participants will be equipped with the knowledge to create designs for segmental pavement systems. Participants will also be given the tools to actively manage, identify and prevent pavement failure from occurring. Participants who complete the advanced module have the necessary skills to design, install and manage segmental pavement installation in applications ranging from civil, commercial and semi-industrial applications.

### Assessment

The advanced course will require the completion of a theoretical assessment. This theoretical assessment will consist of a set of questions that focus on the main points of the module, with a priority on segmental pavement design principles and design applications.

Participants will be given the test as a take-home exam, to be completed in their own time. As participants have ready access to the course notes and resources, they will be required to achieve a mark of 85% in order to pass.

### Session 1: 9:00 - 9:30

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

**Pavement Structures and Substructures** – Explores the pavement structure below the segmental paver layer and the various design choices available.

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

**Subgrade Investigation** – Explores subgrade investigation parameters and their impact on segmental pavement design applications.

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### Morning Tea: 9:30 – 9:45

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### Session 2: 9:45 – 11:05

**Traffic Estimation** – Explores traffic estimation design procedures and its impact on the loading requirements of segmental pavements.

**Surface Design** – Explores how designers can employ design techniques to combine visual appeal with pavement serviceability.

**Thickness Design** – Explores the design decisions made by designers and their reasoning following an assessment of a pavements function and loadings.

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### Session 3: 11:05 – 11:45

**Common Pavement Defects** – Explore the signs that suggest a pavement has been installed incorrectly and provides suggestions on how to best avoid these problems.

**Site Failure** – Explore the relationship between poor site practices and the common issues that develop as a result.

**Review and Recap** – Overview of all discussion topics covered in sessions 1-3. This section will also have a question and answer session.

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