

EDUCATION



Mould Design Training

Typical Mould Design Course

During the APEGG standard mould design training course, the student will be instructed and will learn the principals of container design through to the designing of the required mould equipment parts.

The course is fully detailed and documented; the student will be involved in practical situations and will take a proactive role throughout the period of the course. At the end of the course the student should be in a position to design a round bottle in BB (Blow & Blow) and round jar in PB (Press & Blow) without guidance. A formal end of course assessment will be made and a document published on the progress made throughout the period of the training.

Once the student has returned to the workplace, APEGG offers a 12 month optional package where remote assistance and continued guidance is provided. Again, after completion of the 12 month period, a written report is produced, indicating the progress made by the student.

APEGG is not in the business of just providing training courses. We are an education provider to the glass industry and this continues long after the training course has ended.

Introduction: The APEGG course will start with an introduction to APEGG and the world of glass as well as the understanding of the mould design function within a glass plant.

Container Design: Container design will be covered using an APEGG standard bottle and jar to understand container requirements. For example, weight-to-capacity ratio, shelf image, stability, standing area & stippling, labelling & label spaces, dot codes, engravings and finish design.

Finish Specification: One of the most important parts in container and mould design is the finish. The understanding of different finish specifications, such as finish type and purpose, neck diameter and overhang will be taught. The student will learn how best to construct a glass finish (finish layout) and, with this information, will be able to design the required mould equipment parts (neck ring and guide plate).

Fundamental Knowledge: For effective mould equipment design, it is important to understand the purpose of each individual part. The understanding of mould design data from the different forming machines and respective interchangeable parts, such as mould holders and inserts, is of paramount importance. Mould cooling systems such as stack cooling, vertiflow, invertiflow, axial cooling and mould materials will be covered.

Mould Design: During the course, the student will produce a complete mould design including all parts based on the APEGG standard bottle and jar. Starting with the container specification, the student will design all elements and parts required to produce a good quality container. Mould design modifications and alterations, such as capacity adjustments are equally important to understand and will be covered during the course.

Course Review: At the end of the training course, the student will have the chance to reflect on the education received. These sessions are very useful in order to strengthen the student's new-found knowledge and to discuss an annual follow-up.

In addition, APEGG offers fully customised training courses detailed to suit customer requirements.

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