



## EDUCATION



# Forming Training

During the APEGG glass forming training programme, the participant will be instructed and will learn the characteristics of the different forming processes.

APEGG has the knowledge and expertise to cover all forming processes including Blow & Blow (BB), Press & Blow (PB) and Narrow Neck Press & Blow (NNPB).

We offer both standard and tailored training programmes suitable for forming specialists and machine operators.

Training is provided in a classroom environment, and the participant will be involved in practical sessions and will take a proactive role throughout the period of the training programme.

The course is fully detailed and documented and a formal end of course progress assessment can be provided, if requested, for each participant.

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 has ended.

### Typical Training Topics

**Forming Process:** It is important to understand the characteristics of each forming process and to know what equipment is used in each process; for example, mould equipment parts and forming machine accessories. The correct forming process for a range of different type of containers can be identified and the reasons for their selection explained.

**Gob Forming:** The gob shape and weight contributes heavily to the overall quality of the finished container. Each container type requires a unique gob shape and weight. During the training, we explain the parameters, which influence the gob characteristics, for example glass conditioning, selection of the correct orifice size; plunger size and shape and feeder setup.

**Set-up:** The forming machine must be set up correctly in order to produce high quality glass containers. Both the mechanical and timing set-ups have to be 100% correct to provide stable production and to minimise the damages to machine and mould equipment. Defects are often introduced through incorrect set-up of the forming machine and associated equipment. The principals of machine set-up will be explained so that the participant can understand the relationship between set-up and container defects.

**Timing:** Forming machine speed is something, which all glass manufacturers focus on. When producing lighter containers, the production speed has to increase in order to maintain a high glass pull. This requires perfect event timing and, in some cases, further optimisation of the forming machine cycle is necessary. APEGG offers an advanced training programme for timing optimisation, during which the relationship between each event is analysed in detail.

**Machine Operation:** The production of glass containers is a continuous process where effective machine operation plays a huge part in sustaining high production efficiencies. During the training programme, we cover the main duties of what is expected of a machine operator. Important duties such as regular quality checks, routine mould equipment changes, mould equipment swabbing, defect recognition and housekeeping will be covered.

