KELLER youth project

Training

The youth project was established by KELLER AG für Druckmesstechnik in 2005 with the aim of helping the large number of young people by giving them an opportunity to integrate into the apprenticeship and job market.

Per year, 8 internship places are available. The programme involves a 12-month placement, which can be extended to 24 months. Trainees spend 60% of their working time gaining experience in different production divisions, enabling them to improve their manual and professional abilities while enhancing their social skills.

Two days a week, they attend in-house courses in German, mathematics, P.E., electronics, pressure measurement technology, sensor systems and general studies. Through continued, consistent support, we encourage trainees to develop an efficient work ethic that is characterised by reliability, perseverance, resilience, a positive attitude and willingness to take responsibility. We consolidate, enhance and expand participants' existing knowledge, emphasising the value of language, structured thought and a solid general education.

Since the youth project's inception, 80% of the young people having participated have either found an apprenticeship or a subsequent solution on their educational path.

Company-specific training content

Soft soldering course	**Theory** – soft-solder joints, soft solders, soldering equipment, solder joint inspection, quantity of soldering tin, component theory **Practice** – soldering grid, stripping, drilling and tin-plating wires, soldering wires to pads, soldering wires to glass feed-throughs and prints, soldering SMD components
Electrical engineering	**Electrical circuit** – generating and distributing electrical energy up to the consumer **Voltage** – difference between DC voltage and AC voltage **Current** – relationship between voltage and current **Resistance** – resistance as a load, in the conductor and as a component **Ohm's law** – correlations, simple calculations **Resistive circuits** – measuring series and parallel circuits, simple calculations **Power** – measuring in practice and verifying with calculations **Diodes, condensers** – demonstrating component behaviour **Measurement technology** – using measuring and test equipment
Pressure	**Air pressure/atmospheric pressure, differential pressure, reference pressure** History and physical correlations, simple calculations
Pressure sensors	**Differential pressure sensors, reference pressure sensors, absolute pressure sensors** Area of use, pressure range, accuracy, electrical connections
Pressure gauges	**Barometers, manometers** Area of use, pressure range, accuracy