



Corporate Courses

RRC have over 90 year's experience of delivering health, safety and environmental training worldwide. We have extensive experience delivering corporate training for an impressive portfolio of clients from differentiating industries including: Diageo, Kinross, Petrogas and Tetrapak. Contributing positively to a business' ability to work safely is something we pride ourselves on.

We tailor our courses and consultancy according to our clients specific needs. We have offices and partners in over 20 countries - so we can support your HSE training needs no matter the location.

RRC has developed over 50 health, safety and environmental management courses. Many of these have been accredited by all of the leading UK awarding bodies - NEBOSH, IOSH, City & Guilds, CIEH, CITB and IEMA.

With many courses already provided in a range of languages including English, Arabic, French, Spanish, Turkish, Georgian and Russian and other languages able to be accommodated, we are your ideal global HSE corporate training provider.

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Henkel offers sustainable and cost-efficient surface treatment for aluminum processors

As part of its commitment to greater sustainability and cost-efficiency in metal pretreatment, Henkel is continuously optimizing its conversion coating solutions for aluminum processors. New REACH compliant Bonderite products for etch passivation and corrosion protection are chromium-free, allow the toxicity labeling to be removed, and reduce the user's carbon footprint thanks to fewer active steps. In addition, they also provide significant reductions in product and water consumption.

In its efforts to replace hexavalent chromium (Cr VI) compounds in metal surface treatment, Henkel started to develop alternative technologies many years ago.

Today, the company offers a rich portfolio of high-quality conversion products. Moreover, the company has been focusing on reducing the complexity of conversion processes by minimizing the number of required process steps.



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Carlo Gavazzi's smart factory solutions on show at PPMA Total Show



Following the success of last year, Controls and Automation specialist, Carlo Gavazzi will be returning to this year's PPMA Total show at the NEC, Birmingham on 1st-3rd October - the UK's leading event for Processing and Packaging Machinery.

This year, the Carlo Gavazzi team will be on hand to discuss the latest technological innovations and advantages of IO-Link Sensors; illustrating increased availability of data, standardized wiring, remote configuration and monitoring as well as, simple device replacement. Also, on show will be the latest wireless handheld IO-Link smart configurator which makes a laborious task quick and easy.

Martin Wyatt, Carlo Gavazzi's Business Development Manager explains: "We can show how advances in technology and the revolutionization of the manufacturing industry can aid operational excellence by providing insight into systems to reduce unscheduled downtime whilst improving productivity and energy usage."

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New technology used for solenoid lock

The Schmersal Group is using Plasma-SealTight technology in a pilot to produce its AZM300 solenoid lock. Used on safety doors, the interlock has a metal bracket integrated into a plastic actuator. The bracket engages with an interlock cross-head to ensure safety doors are securely closed.



Plasmatreat has developed a process for hybrid injection-moulded parts in cooperation with the plastic compound manufacturer, AKRO-PLASTIC. This new process is said to provide a significant improvement to bonding in hybrid plastic-metal components and can be integrated into series production lines.

A reliable, firm bond is crucial during the joining process to produce a high-quality, resistant joint between the dissimilar materials plastic and metal. In a plastic-metal bond, interfaces without a special seal represent a constant contact surface where water, air or other media ingress. The Plasma-SealTight plasma seal process developed by Plasmatreat and AKRO-PLASTIC offers a new approach to providing a highly bonding, media-resistant hybrid joint. In this new industrial solution, the plastic compound formula, the process parameters, and the composition of a plasma-polymer seal layer created under atmospheric pressure were matched to one another in such a way that they would create a durable, media-tight bond in the component.

The new process is said not only to achieve better product quality, but also a reliable, reproducible, cost-efficient production process with the added bonus of respecting the environment. Thanks to the Plasma-SealTight technology, there is no need to apply cost-intensive, environmentally harmful chemicals to metal surfaces. Such chemicals are often used to create a firm bond with the help of solvent-based adhesion promoters.

The AZM 300 is an innovative safety interlock which is now used in many sectors of industry. AZM 300's features include a new patented operating principle with a hub and cross-head. It brings the advantage that the safety door is pulled into its end position when closed and is securely locked free of almost any clearance. The solenoid interlock operates as an integrated guard catch, hence removing the need to fit a separate catch. An RFID sensor is used to identify the actuator reliably, thus providing three different code levels and, consequently, protection against manipulation.

If the new process proves to be successful after completion of a pilot phase, Schmersal intends to use it in both new and existing products, thus producing them even more efficiently.

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