

# Introduction to Aluminium Surfaces & Treatments.

This training course equips delegates with a solid foundational understanding of aluminium surfaces and treatments. Whilst it is pitched at an introductory level, the topics are explored in some depth.

We aim to bridge the gap between fundamental knowledge and real-world applications to ensure that delegates are well-prepared to address processing challenges and contribute to maintaining high product quality.

This 2 x 0.5-day online training course contains the following modules:

## **Aluminium surfaces.**

- Surface characteristics
- Surface generation during processing
- Factors affecting surface properties
- Quality requirements and inspection
- Common product defects

## **Surface cleaning.**

- Objectives of surface cleaning
- Cleaning types and reaction mechanisms
- Critical control parameters in production
- Evaluation of surface cleanliness
- Common issues and remedies

## **Surface pretreatment.**

- Typical requirements
- Pretreatment developments
- Formation mechanisms
- Automotive pretreatments
- Application techniques

## **Anodising.**

- Purpose of anodising
- Mechanism of anodising
- Influence of processing parameters
- Anodising types and applications
- Common issues and remedies

## **Surface coating.**

- General characteristics
- Adhesion properties
- Coating chemistry
- Performance testing
- Coating modifications

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