 Aluminium Automotive Sheet

This course contains the following modules:

**Background to the use of aluminium in automotive applications**
- Drivers for aluminium use in automotive
- Aluminium structured vehicles
- Growth in sheet production capacity
- Barriers to aluminium use and the need for recycling

**Equipment needs and supply chain considerations**
- Aluminium rolling and finishing requirements
- Recycling requirements
- Status of continuous casting technologies

**Metallurgy basics and 5000-series alloys property control**
- Metallurgy fundamentals
- Alloy and temper designations
- 5000-series mechanical property control

**Surface control and lubrication**
- Cleaning
- Pretreatment
- Surface topography
- Lubrication

**Vehicle manufacture**
- Closures and hang-on parts
- Aluminium Intensive Vehicles
- Jaguar’s Castle Bromwich plant
- Joining technologies
**6000-series alloys property control**
- Metallurgy of heat treatable alloys
- 6000-series mechanical property control

**Surfaces and corrosion**
- Corrosion fundamentals
- Aluminium vehicle corrosion
- Corrosion prevention
- Aluminium sheet in the auto paint line

**Testing requirements and OEM qualification**
- Product standards
- Material testing
- OEM qualification

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