



The Institute of Asphalt Technology

Road Engineering Training Course 2025

Programme - Day 1			
Time	Presentation	Content	Presenter
08:45-09:00	Registration & Introduction	Course Format The IAT	
09:00-09:45	Aggregate Production & Circular Materials	Blasting, Crushing & Screening Aggregate Properties, Circularity	Diarmuid McCarthy (Roadstone)
09:45-10:45	Bituminous Binders & Bituminous Mixtures	Bitumen, PMBs, Bitumen Emulsions, Biobinders. Bituminous Mixtures & Treatments. Bitumen's role in Sustainability.	Gearoid Lohan (Colas)
10:45-11:15	Tea & Coffee break		
11:15-12:00	Design, QC & Testing of Bituminous Mixtures	Design & Manufacturing Process Material selection, Quality Control, Type Testing, FPC & CE Marking Reclaimed Asphalt, Durability & Sustainability	Alan Lowe (Roadstone)
12:00-12:45	Low Energy Mixtures & Carbon Footprint	Warm & Cold Mixtures, Carbon Footprint, Recycled Pavements Micro-Surfacing, Surface Preservation Techniques	Alan Anderson (Colas)
12:45-13:45	Lunch		
13:45-14:45	The Works Installation - Best Practice on Site	Preparation, Bond Coat, Weather Laying Temperatures, Thickness & Compaction Control Application of Coated Chippings	Garrett Doherty (Donegal NRDO)
14:45-15:30	Managing Road Condition & Maintenance in Ireland	Pavement condition & recording on road network. Best practice for managing roadworks by critical Utility Companies	Brian Burke (RMO)
15:30-16:00	The Use of mastic Asphalt in Roads Ironworks; Specification & Choices	Mastic asphalt, its composition and uses. Ironworks in Road and Airport pavements. Sustainable Thermal Pavement repairs.	Cathal Fahy (Tarstone)
16:00-16:30	Introduction to Geosynthetics	Types Site & Laboratory Testing Functions & Applications Sustainable solutions	Tony Broderick (IAT)
16:30	End of day 1		



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Programme - Day 2			
Time	Presentation	Content	Presenter
09:00-10:30	Safety Management at Road Works	Risk Management Works Controls & Responsibilities Documentation & Safety Plans The Traffic Management Process Planning & Design of Roadworks Pedestrians & Vulnerable Road Users	Charlie Kerr (Tobar Seagais)
10:30-11:00	Tea & Coffee break		
11:00-12:00	Pavement Specifications & Standards	EN Standards NSAI Standards TII Publications DTTAS & RMO Publications Road Opening Specification TII Sustainability Implementation Plan	Kevin Crawley (TII)
12:00-12:45	Pavement Surveying	Structural Condition – FWD Skid Resistance - SCRIM Road Profile & Ride Quality – RSP Pavement Cracking - LCMS Macrotexture and 3D CRP Visual Condition Surveys – PCI & PSCI	Brian Mulry (PMS)
12:45-13:30	Lunch		
13:30-14:15	Road Maintenance-A District Engineer's Perspective.	Role of District Engineer Road Surfacing and Overlays Drainage Management of Road Openings Climate Adaptation Management of Roads over Peat	John Mitchell (Offaly Co Co)
14.15-15.00	Installation - Equipment & Plant Innovation	Milling Machines, Pavers & Rollers Equipment for In-situ & Ex-situ Recycling Sustainability and Digitisation.	John Jordan (Wirtgen)
15:00-16:00	Surface Dressing	Function, Mechanism & Types Component Material Requirements Design Principles – IAT Design Method & TII Analytical Design Method Quality Control, Remedial Works Options	Damien McCormack (Irish Tar)
16:00	End of day 2		