

Changes to training for Winter Service decision makers, managers and operational staff

Presentation to APSE Highways October
2025

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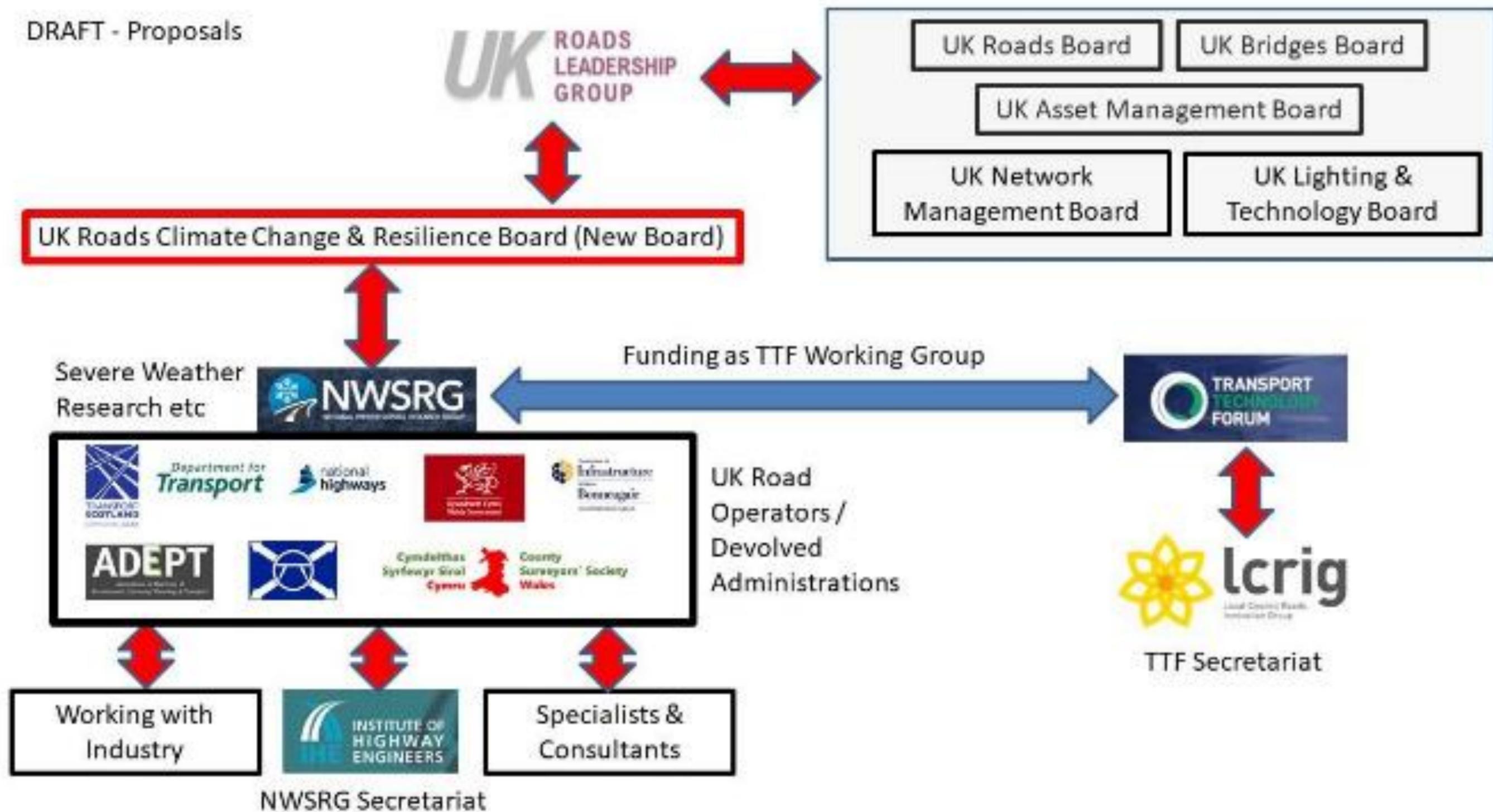
Presentation Overview and Key Topics



- Training standards, certification, and assessment process
- Introduction to Winter Service decision-making and management principles
- Detailed syllabus covering legal, operational, and meteorological aspects
- Innovations in treatment methods and operational training
- Importance of effective decision-making in severe weather conditions
- Networking and professional development opportunities



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Winter Service - Plant & Delivery



NWSRG



IHE UNIT03 FOUNDATION

Winter Service Operator City & Guilds 6159 Units

- 040 - Operate National Assembly for Wales dedicated equipment – Scania
- 050 - Operate dedicated snow blower HA / NAFW
- 060 - Operate dedicated snow blower
- 070 - Operate snow blower demountable

Winter Service Operator City & Guilds 6159 Units

- 011 - equipment up to 3500kg to include agricultural tractors
- 012 - equipment from 3500kg to 7500kg medium LGV
- 013 - equipment over 7500kg large LGV
- 015 - highways agency equipment – Man / Schmitt / Romaquip

Winter Service Operator City & Guilds 6159 Units

- Safety Unit**
 - 080 - Health and safety core unit
- Supervisors**
 - 021 - Winter Manager / Supervisor-(of operation's)
- Endorsements**
 - (Equipment indicators for units 011, 012 and 013 only)
 - 111 - Spreader fixed or demountable
 - 212 - Spreader towed
 - 313 - Plough angle blade / Vee blade

Vehicle & Plough only City & Guilds 6159 Units (New)

- 016 Vehicles under 3500kg (inc. tractors)
- 017 Vehicles between 3500kg – 7500kg
- 018 Vehicles over 7500kg
- 090 Core Health and Safety (vehicle and plough only)



Qualification Handbook

www.cityandguilds.com
 May 2025
 Version 4.2



Training for operational staff

- NWSRG have agreed learning outcome for Courses for Supervisors and Operatives undertaking Winter operations and will be published shortly

Any operative involved in the use or operation of any plant or machinery should receive relevant formal training to do so. Where reserve drivers are available as part of an authority's contingency plans it is essential that they are trained to an equal level of competence



NWSRG Learning Outcomes

Operational Staff

- 1. Current Health and Safety Legislation (Brief Overview)
- 2. Winter Service Vehicles and Equipment
- 3. Use of De-icing Materials
- 4. Spreading of De-icing Materials
- 5. Spreading Patterns
- 6. Safe Loading or Mixing Procedures
- 7. Emergency Procedures
- 8. Snow Clearing
- 9. Snow Blowers
- 10. Practical tasks (may be undertaken on an additional training day if required).



NWSRG Learning Outcomes

Supervisory Staff

- 1. Current Health and Safety Legislation relating to winter service operations
- 2. Operators checks and defect reporting
- 3. Winter Service Vehicles and Equipment
- 4. Rates of spread for de-icing materials
- 5. Use of de-icing Materials – Chemical de-icers
- 6. Emergency procedures
- 7. Drivers Hours and Working Time
- 8. Environmental impact of spreading de-icing materials
- 9. Terminology used in weather forecasting
- 10. Winter Service National Guidance
- 11. Contents of a winter service policy
- 12. Winter service operational planning, monitoring and review
- 13. Methods used in decision making
- 14. Qualifications available for Winter Service Operations
- 15. Use of Data Logging



Decision maker's course

The course delivers learning across a wide range of subjects necessary for Winter Service Professionals and enables individuals to demonstrate competence.

- The Law, Code and Policy
- Record Keeping
- The Practical Guidance Documents ,Winter Service Plant & Delivery
- Severe Weather and Snow Response
- Winter Communications
- Winter Road Meteorology
- Ice Prediction Systems and Monitoring
- Decision Making

The course is structured around advice and codes of practice from “Well Maintained Highways”, the NWSRG guidance, meteorology and ice prediction systems and is delivered by leading industry professionals.



**INSTITUTE OF
HIGHWAY
ENGINEERS**



NWSRG
NATIONAL WINTER SERVICE RESEARCH GROUP

Background



The sole nationally accredited certification course in the UK designed for decision-makers and managers / policyholders.



The Certificate/Diploma serves as strong evidence of competency in the essential role.



Offers chance for individual enhanced professional growth.



An opportunity to engage with other participants and gain insights from the effective strategies employed by various agencies in winter service delivery.



Syllabus



The Course is held at IHE Birmingham or on occasion at Authorities venues (dependent on Numbers of attendees) held over a 5-day period .

The Dates are advertised on the IHE web site under Training section .



Course outline

Day1 Policy, Claims management, Communications and severe weather

Day 2 The Practical Guidance Documents , Winter Service Plant & Delivery.

Day 3 and day 4 am meteorology

Day 4 pm Ice prediction systems

Day 5 Decision making

Assessment and award of Certificate and Diploma

- Candidate submit three written assessment of the performance of their own authority and/or their own experience covering operations, claims management and decision making
- Marks are awarded for each section and a score of 70 or more will result in the award of the IHE Diploma
- Scores of 50 or more will result in the award of the IHE Certificate
- Successful candidate will be entered on the IHE register of competent individuals
- Successful candidates will be able to use the post nominals RegWSDM(IHE)

Some of the topics covered



Treatment Methods- Dynamic / Selective Gritting.



Equipment – Autonomous Gritters.



Forecasting – progression in accuracy and use of AI



Hardware – Weather station types and Data.



Materials- Types including Salt , Salt with additives and Liquid treatment's



Big Data – Car Data and Gritter Data.



Thank you for your time

Any enquiries please contact info@theihe.org
or visit our website at www.theihe.org
NWSRG website nwsrg.org

