

APSE
Bradford October 2015

Skills for all- what do you and
your operatives need to
know?



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Winter services in 60 minutes

Competency in Winter Services



- Guidance

- Recommended schemes

- Maintaining competency



Well-maintained Highway Infrastructure part 2 –Highways Section 7 Winter Services

- Compliance by October 2017
- Risk based approach throughout
- Fewer if any prescribed standards
- Appendix H removed and replaced by NWSRG Practical Guide

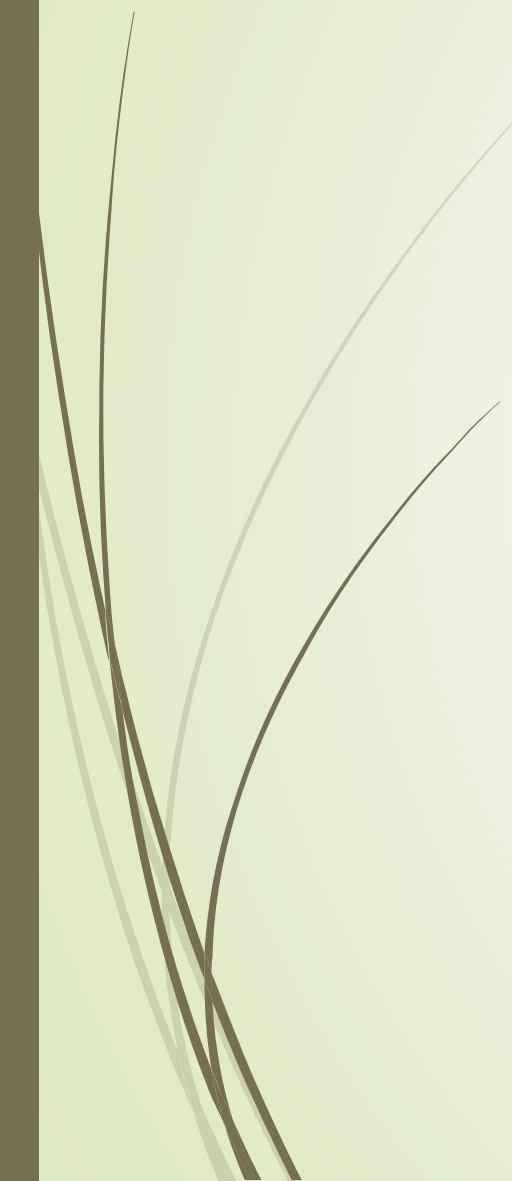


Guidance

- Delivery of a successful Winter Service is dependant on the individual decisions mad and actions taken by all those involved. These actions and individual decisions must be supported by adequate training of staff and operative involved

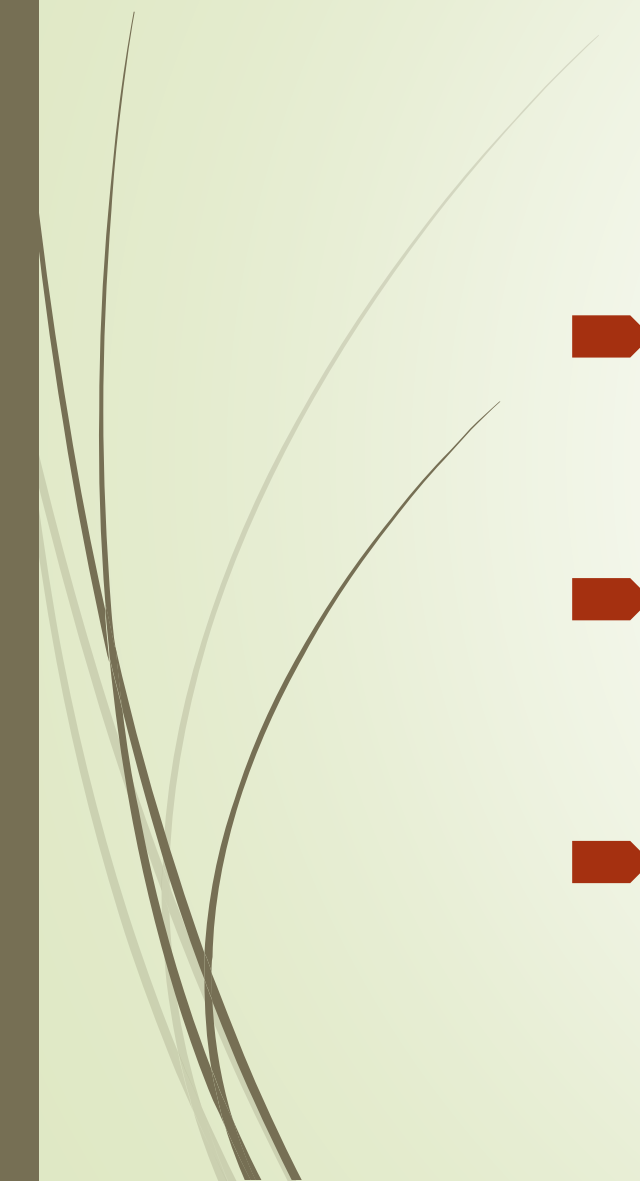


Training and development needs

- Establish clear levels of competence required
 - Review annually
 - Include health and safety
 - Vocational qualifications
 - Provide training at appropriate time
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Practitioner training programme

- Modules
 - Format of training
 - Assessment
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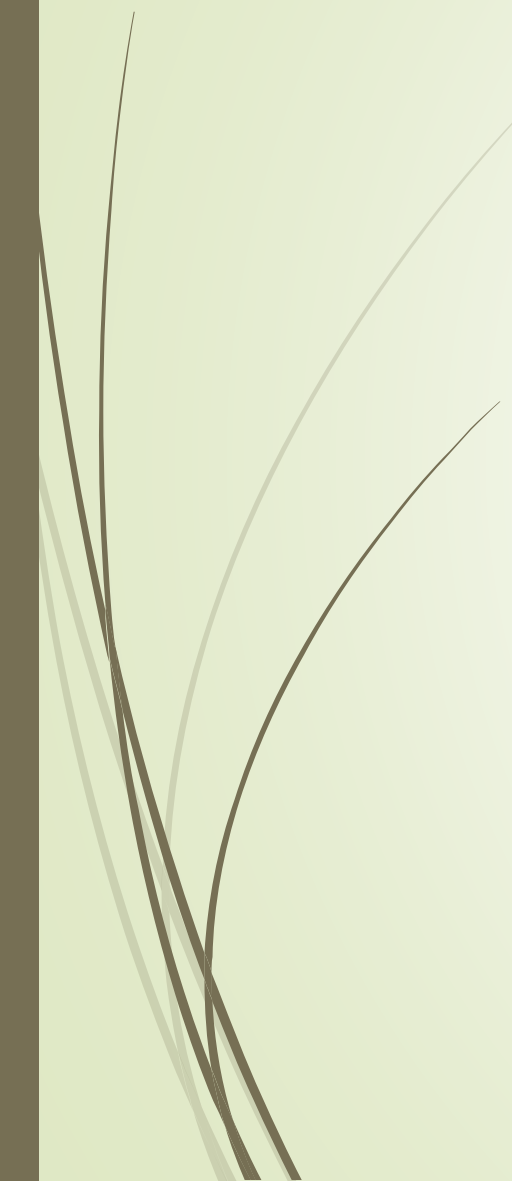


Training- specific issues for delivery personnel

- Avoidance of spraying pedestrians cyclists and vehicles
- Avoidance of risk to pedestrians and other users when treating shared facilities
- Ploughing and manoeuvring in restricted circumstance
- Other road vehicles

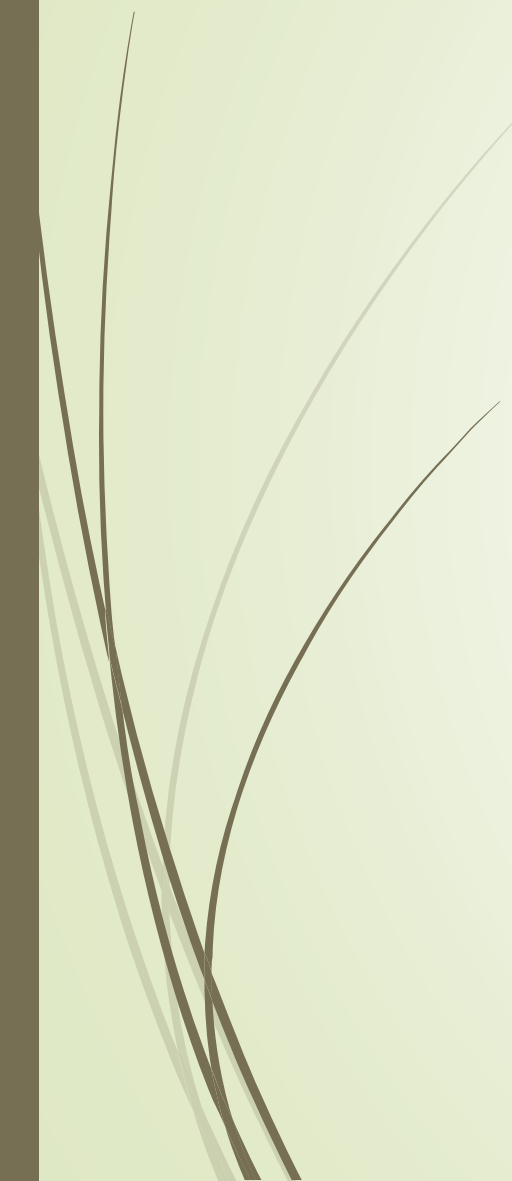


Specific training during operational periods

- ▶ Traffic management special arrangements
 - ▶ Network unavailability
 - ▶ Breakdowns and trouble spots
- 



Groups involved in delivering winter services

- Winter Decision Makers
 - Winter Policy Managers
 - Supervisory staff
 - Drivers and plant operators
 - Senior Management
 - Elected Members
- 



Decision makers and policy makers

- ▶ IHE/NWSRG Professional Certificate in Winter Services
- 



Supervisory Staff

- Specific City and Guilds 6159
 - Module for first tier of management
- 




Drivers and Plant Operators

- City and Guilds 6159
 - NOS Winter Service Operatives
- 



Senior Managers & Executive Members

- IHE Foundation Course
 - Internal Briefing
- 



IHE/NWSRG Professional Certificate in Winter Services

- ▶ Aimed at experienced staff involved in decision making and operations
- ▶ Lectures, assignments and further reading
- ▶ Portfolio of evidence
- ▶ Assist in I Eng. Submission
- ▶ Recognised in new Section 7 of Well-managed Highway Infrastructure-Part 2
- ▶ QCF level 5/6

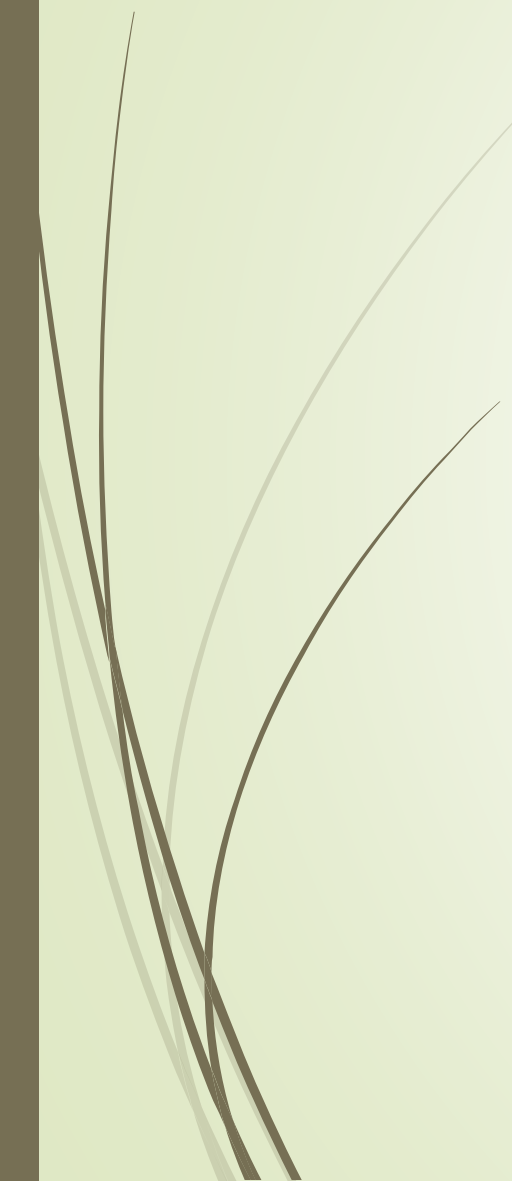


Key issues dealt with

- Legal responsibility
 - Record keeping
 - Communications
 - Appendix H
 - Weather, climate change and ice detection systems
 - Severe weather event
 - Network opportunities
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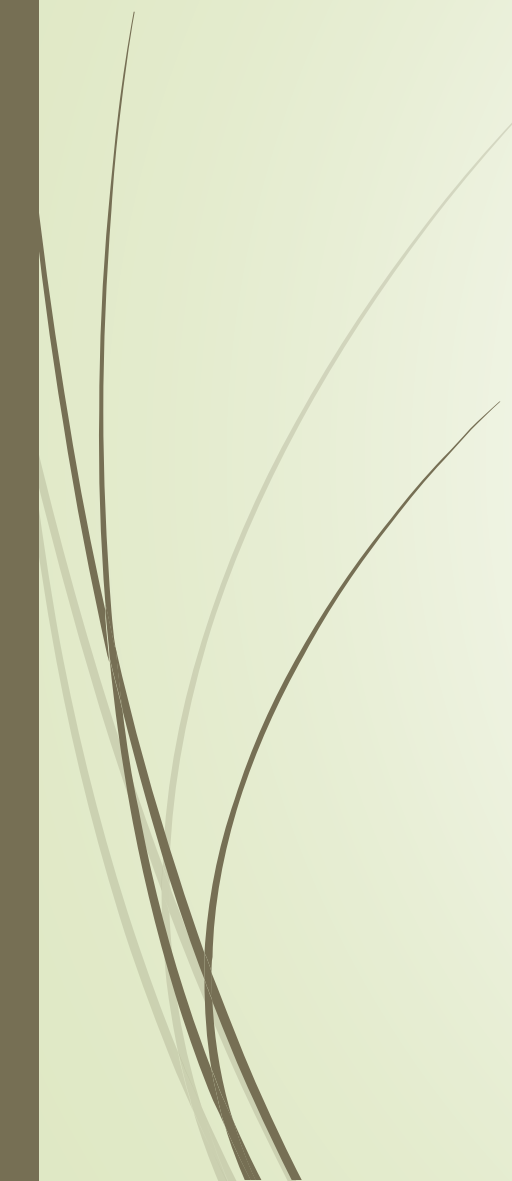


Practitioner level training

- Suitable for decision makers and key operational staff
 - 4/5 days training
 - End of course assessment
 - Portfolio of evidence against competency standards required
 - Peer review
 - National register of Decision Makers and managers
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Foundation level training

- Two day short course
 - QCF Level 3/4
 - Appropriate for new entrants to service delivery
 - Also appropriate for senior manager and leading members
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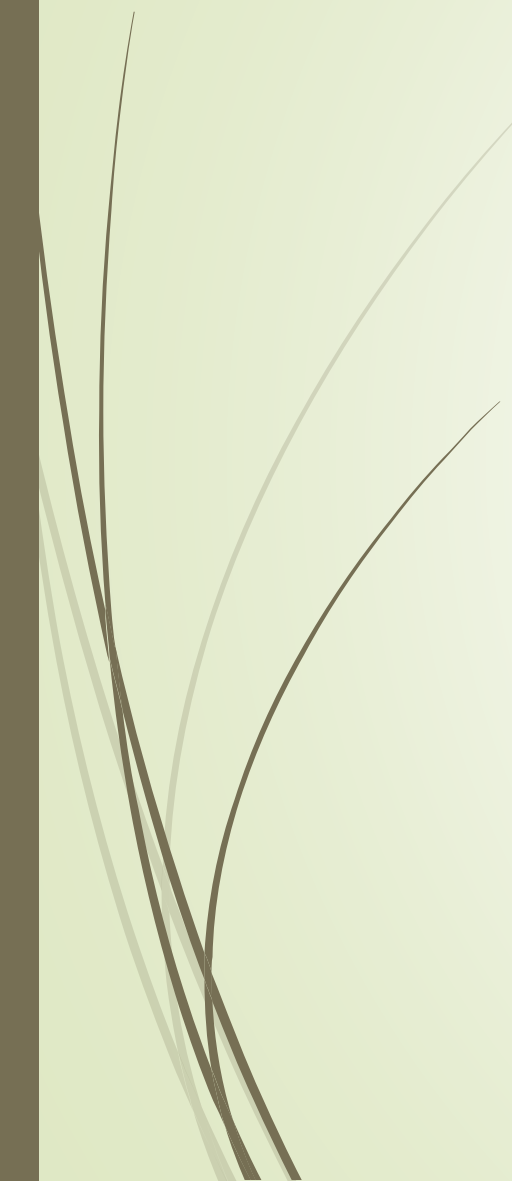
A sample of the content

- Record keeping





Why do we need good records?

- To defend the authority when required
 - Legal claims
 - Police investigations
 - To enable correct decisions to be made to resolve problems
 - To enable improvement
- 



Road Death Investigation Manual

- Following the introduction of the Corporate Manslaughter and Corporate Homicide Act 2007, organisations have become more accountable for deaths that occur within their remit. The offence section of the Act states:

“An organisation to which this section applies is guilty of an offence if the way in which any of its activities are managed or organised causes a person’s death and amount to a gross breach of a relevant duty of care owed by the organisation to the deceased.”



Police Investigations

An in-depth investigation into the performance of the highway authority will typically seek answers to the following key questions:

- ✧ Were the policies, procedures and practices developed by the highway authority reasonable and well considered, when taking into account statutory duties, powers, and national and local best practice?
- ✧ Were the policies, procedures and practices developed by the highway authority consistently implemented?
- ✧ Did the highway authority act reasonably in response to all of the pertinent information it had available?



Winter maintenance scenario

In this scenario a fatality occurs on a stretch of road and on investigation it is suspected that one of the following may have contributed:

1. surface not cleared appropriately or not at all;
2. problem with the drainage; and/or
3. inappropriate or lack of winter maintenance response.



Road Death Investigation Manual

- ▶ Staff training - City and Guilds certificates showing staff training in areas such as driving and decision making.
- ▶ Specification of salt ordered, including results of quality assurance checks
- ▶ Weather Forecast Provider (Name of Company and Contact details).
- ▶ Record and details of weather forecasts received.
- ▶ Weather Station. Type of weather station and Certificate of Conformity.



Road Death Investigation Manual

- Details regarding climatic domains within the accident area and the provision,
- Siting and maintenance of automatic weather stations.
- Thermal mapping.
- Ice detection system data.
- Drainage design (as built drawings) and maintenance details, if the accident is ice related.
- Listings and maintenance records for salting vehicle fleet.



Road Death Investigation Manual

- Instructions from the Client to service provider (and confirmation of receipt).
- Any additional/ad hoc notes made by the Client and/or service provider regarding salting decisions.
- Works supervisor logs and works record sheets from the Client and service provider.
- Tachograph records from the salting vehicle.
- Data logger/black box information if available




Road Death Investigation Manual

- Calibration records of salt spreading equipment
- Staff rotas. Including changeovers, decision makers, supervisors, drivers, etc).
- Monitoring/performance checks made.
- Collision reports for the last 6 years at the site.
- Collision reports in the surrounding authority area in the 24 hours prior to the accident.



Road Death Investigation Manual

- ▶ Records of liaison with Emergency Services and the general public, etc around the time of the accident, relating to adverse conditions at the location.
- ▶ Records of all media coverage and advice given at the start of the winter maintenance season as to provision of winter maintenance services across the network.
- ▶ Records of liaison with adjoining authorities/bodies regarding winter maintenance decision making.




Drivers and Plant Operators- City and Guilds 6159

- Developed in conjunction with Highways England, National Assembly for Wales and local authorities
- No pre-requisite to the course except appropriate driving licence
- 1 day Health and Safety training
- 0.5 day assessment per units
- No transferability between units i.e. each unit is assessed separately




Qualification Schemes and Units available

- Scheme 6159-12 Winter Services Operations Non Highway Agency
- Scheme 6159-10 Winter Service Operations Vehicles and Snowploughs
- Scheme 6159-11 Winter Service Operations Highways Agency Equipment
- Scheme 6159-13 Winter Services Operations Snow Blowers



City and Guilds 6159-12 Winter Service Operations Non Highways Agency

- Unit 080 Winter Service Operations Health and Safety
- Unit 011 Prepare and operate winter service vehicles up to 3500kg
- Unit 012 Prepare and operate winter service vehicles 3500kg to 7500kg
- Unit 013 Prepare and operate winter service vehicles over 7500kg
- Unit 111 Spreader Fixed
- Unit 212 Spreader Towed
- Unit 313 Plough angle blade/Vee blade
- Unit 080 compulsory plus 1 of (011-013) plus 1 more of (111 or 212 or 313)



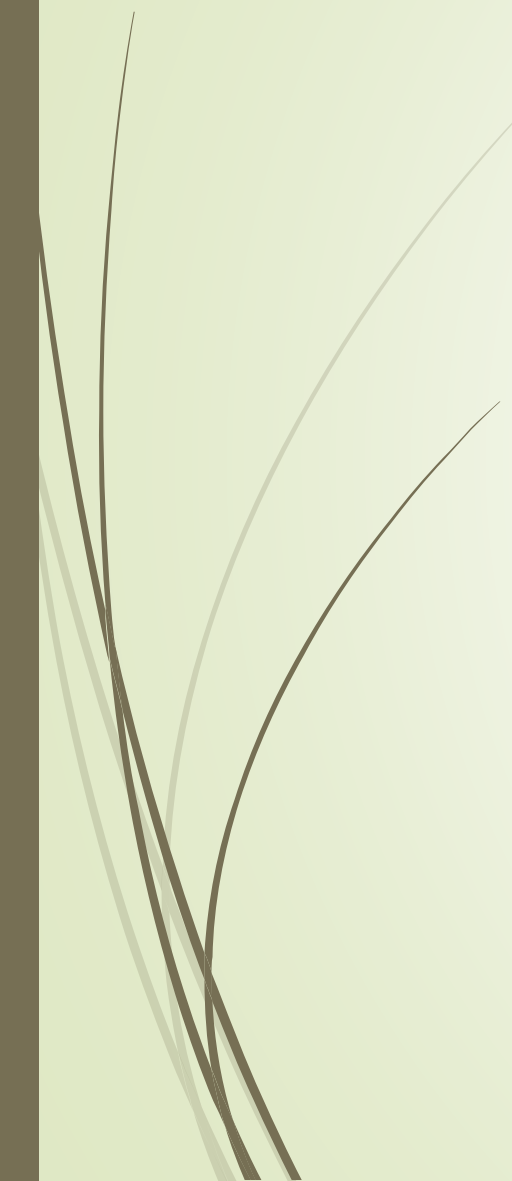
Winter Service Supervision & Monitoring (Unit 21)

Topics covered

- Health and safety legislation
- Operators checks and defect reporting
- Winter service vehicles and equipment
- Rates of spreading
- Use of different de-icing materials
- Emergency procedures
- Drivers Hours and WTD
- Use of data logging
- Methods used in decision making



Maintaining Competency

- Training Plans and Records
 - Route and equipment familiarisation
 - Exercising
- 



Training Plans and records

- Guidance suggests that organisations have a system of formal training records
- System should record and monitor the training and competence of each individual involved in Winter Service
- Able to identify and plan training requirements and refresher training
- Contracted out service providers should be required to maintain similar systems



Route and Equipment Familiarisation

- Use of dry runs
- Tool box talks
- Important to new operatives
- Important if route changes have been made
- Important if new equipment is provided



Exercising

- Ability to confirm that the plans and procedures are robust to cope with conditions in a safe and non consequence environment.
- Requirement for Category 1 responders(Local Authorities) to exercise their plans to validate and test them
- Winter Services may need to be included in current plans as severe snowfall has resulted in emergency plans being invoked
- Benefit for undertaking this on regional basis



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