



## MEMORANDUM

Date: July 28, 2012

TO: TxDOT Research and Technology Implementation Office

FROM: William D. Lawson, P.E., Ph.D.

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SUBJECT: Course Learning Objectives  
TxDOT 5-9044-01: Winter Weather Operations Training

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The final learning objectives for the subject course are as follows:

1. List safety considerations associated with winter weather conditions, equipment, materials, and operational tasks.
2. Describe winter maintenance activities associated with pre-season preparation.
3. Explain how available road maintenance equipment is used to fight snow and ice.
4. Mount winter maintenance equipment including material spreaders and snow plows.
5. Conduct a “pre-trip” inspection on winter maintenance equipment.
6. Comprehend the importance of calibrating equipment in order to “hit the target rate” when applying snow and ice chemicals.
7. Identify the basic snow and ice control chemicals used in TxDOT.
8. Compare and contrast traction improvement, de-icing, and anti-icing as snow and ice treatment strategies.
9. Demonstrate basic knowledge of snow and ice removal techniques.
10. Identify post-storm cleanup activities associated with winter weather operations.

These objectives were first articulated in DRAFT form on June 30, 2011. As the curriculum continued to develop, the learning objectives were revised and refined up to and including the Pilot Course on June 28, 2012. The objectives presented herein represent the final expression of the course learning objectives based on evaluation comments from the Pilot Course, and were published in the production version of the Student Manual as revised on July 28, 2012.