



Texas Commission on Environmental Quality

Compliance Support Division
January 2008

Training For Municipal Solid Waste Facility Supervisors of Permitted or Registered

- **Type VI Demonstration Facilities**
- **Type VII Land Management of Sludge & Similar Wastes**
- **Type VIII Used or Scrap Tire Facilities**

Curriculum Guidance – Class C MSW License Training Course

This course is 18-21 hours of training for supervisors of demonstration, used or scrap tire, and land management of sludge or similar waste facilities. The course must include instruction to ensure supervisors are knowledgeable of rules that regulate municipal solid waste facilities in which they supervise. The course should include sufficient instruction, demonstration, and course materials to develop confidence in the supervisor to enable him/her to supervise the day to day operations of the MSW facility in compliance with the rules. This course is a stand alone course. Times for all course topics are approximate. Renewal of a Class C level license requires 12 hours of approved continuing education.

Course topics should include:

(1 Hour)

INTRODUCTION

- Qualifications for obtaining initial licenses and renewal of licenses. 30 TAC 30 Subchapter F.
- Introduction to the rules including how to locate and understand the rules.
- Definitions and language pertaining to municipal solid waste management facilities.

(4 Hours)

TYPE VIII FACILITIES – MANAGEMENT OF USED OR SCRAP TIRES – REGISTERED SCRAP TIRE STORAGE FACILITIES

MSW Facilities – Type VIII. Facilities for the management of used or scrap tires are classified as Type VIII (30 TAC 330.5, Classification of Municipal Solid Waste Facilities). Standards are prescribed in Chapter 328, Subchapter F (relating to Management of Used or Scrap Tires).

Persons who store more than 500 used or scrap tires (or weight equivalent tire pieces or any combination thereof) on the ground or 2,000 used or scrap tires (or weight equivalent tire pieces or any combination thereof) in enclosed and lockable containers at a facility shall be required to

obtain a scrap tire storage site registration for that facility from the executive director pursuant to §328.55 of this title (relating to Registration Requirements).

Generators who store used or scrap tires in excess of 500 used or scrap tires (or weight equivalent tire pieces or any combination thereof) on the ground or 2,000 used or scrap tires (or weight equivalent tire pieces or any combination thereof) in trailers shall be required to obtain a scrap tire storage registration pursuant to §328.55 of this title (relating to Registration Requirements).

- Definitions
- General Requirements
- Registration Requirements
- Generator Requirements – Registered Scrap Tire Storage Site
- Manifest System
- Storage of Used or Scrap Tires – Registered Scrap Tier Storage Site
- Scrap Tires Storage Site Registration
- Design Requirements for Scrap Tire Storage Site
- Scrap Tire Storage Site Record Keeping
- Scrap Tire Facility Requirements
- Requirements for a Scrap Tire Facility
- Closure Cost Estimate for Financial Assurance

(4-6 Hours)

TYPE VI FACILITIES – DEMONSTRATION FACILITIES

A Type VI facility or operation is a facility using a new or unproven method of managing or utilizing MSW, including resource and energy recovery projects for processes that are not currently in use in Texas. The commission may limit the size of these facilities until the method is proven.

MINIMUM OPERATING STANDARDS FOR TYPE VI FACILITIES

(*Indicates Priority Items to Include and Cover.)

- General Prohibitions (Sec. 330.15)
- Site Development Plan (Sec. 330.63(d)(9))
- Waste Acceptance and Analysis*
 - Sources and characteristics of waste
 - Types and amounts
 - Parameter limitations
 - Storage limits and processing time
 - Effluent sampling
 - Analysis for waste received
 - Recordkeeping
- Facility Generated Wastes*
 - Characteristics and constituent concentrations of wastes generated
 - Processing and disposal of facility generated wastes
 - Sludge management
 - Analytical Quality Assurance and Quality Control (Chap 330, Sub Ch F)
- Contaminated Water Management*
 - Liquid disposal
 - Contaminated water and leachate management
 - Leachate and gas condensate prohibitions
 - Discharge requirements

- Effluent limitations
 - Storage prohibitions
 - Storage Requirements
 - Approved Containers
 - Citizen's Collection Stations
 - Stationary Compactors
 - Recordkeeping and Reporting*
 - Fire Protection*
 - Water supply
 - Firefighting equipment
 - Fire protection plan
 - Access Control
 - Unloading of Wastes*
 - Spill Prevention and Control
 - Operating Hours*
 - Facility Signage
 - Control of Windblown Material and Litter
 - Materials Along the Route to the Site
 - Facility Access Roads
 - Noise Pollution and Visual Screening
 - Overload and Breakdown*
 - Design capacity
 - Alternate processing or disposal plan
 - Sanitation*
 - Minimum requirements
 - Onsite storage limitations
 - Wash water disposal
 - Ventilation and Air Pollution Control*
 - Health and Safety*
 - Personnel training
 - Facility health and safety plan
 - Employee Sanitation Facilities
 - Financial Assurance (30 TAC Chapter 37, Subchapter R)
 - Closure and Post Closure Requirements (Chapter 330, Subchapter K)
 - Closure, Post-Closure and Corrective Action Cost Estimates (Chapter 330, Sub R)
- (*Indicates Priority Items to Include and Cover.)

(5-6 Hours)

TYPE VII – LAND MANAGEMENT OF SLUDGE OR SIMILAR WASTES (30 TAC 312)

A Type VII facility or operation is a MSW facility for the land management of sludges and/or similar wastes. Operational standards, depending on the particular waste, facility purpose, and method of operation (land application for beneficial use, land disposal to include landfilling and land treatment, etc.) are contained in 30 TAC Chapter 312 (relating to Sludge Use, Disposal, and Transportation).

- Final use or disposal of sewage sludge generated during the treatment of domestic sewage in a treatment works and final use or disposal of domestic septage.
 - General requirements
 - Pollutant limits
 - Management practices

- Operational Standards
- Standards for sewage sludge and domestic septage applied to the land for beneficial use, or placed on a surface disposal site.
- Standards applicable to the disposal of water treatment sludge.
 - Purpose
 - Scope
 - Standards
- Pathogen and vector attraction reduction requirements for sewage sludge and domestic septage applied to the land or placed on a surface disposal site.
- Frequency of monitoring and record keeping requirements;
 - When applied to the land
 - When surface disposal site

(4 Hours)

GENERAL TOPICS – (Include Measurable Verification of Comprehension)

REGULATIONS, REGULATORS, AND PUBLIC RELATIONS

- Brief history of municipal solid waste management—the rule making process.
- Authority and relationships with other governmental entities.
- How to effectively communicate with regulators during routine site and complaint investigations.
 - Preparing for site inspection (scheduling time, records needed, sampling)
 - Responding to notices of violation or enforcement
 - Corrective action planning
- Good neighbor relations
 - Responding to complaints
 - Investigating a complaint
 - TCEQ's Odor Complaint Procedures
 - Corrective action
- Response and Reporting of Spills (30 TAC Chapter 327)
- TCEQ's Small Business and Environmental Assistance Programs

BASIC MATH

Supervisors of MSW facilities should have basic mathematical skills in order to measure and evaluate basic information. Instruction should be given to include:

- Calculating averages
- Conversion processes (pounds to tons, cubic feet to cubic yards, etc.)

OPERATING EQUIPMENT

In order to comply with an MSW facility's permit, proper equipment operation is a critical function.

- Equipment productivity - proper operating procedures
- Best management practices

EQUIPMENT MAINTENANCE

In order to comply with an MSW facility's permit, proper equipment maintenance is a critical function.

- Avoiding unnecessary breakdowns/proper equipment maintenance
- Back up equipment/emergency preparedness

SAFE OPERATING PROCEDURES AND WORKPLACE HAZARDS

Identifying workplace hazards and communicating those hazards to employees and the general public is necessary to protect human health and safety and the environment.

- Effective safety programs
- Workplace hazards
- Employee and public awareness
- Traffic at the facility
- Effective communications

GUIDANCE DOCUMENTS FOR MUNICIPAL SOLID WASTE (330.17)

The following guidance documents and templates have been prepared to aid in complying with the revised MSW rules (30 TAC Chapter 330) that became effective March 27, 2006. As a simplified explanation of the rules, the guides below are intended to help achieve compliance with environmental regulations. Guides are just one tool to use to reach full compliance, remember that the rules are what you must follow.

- **TCEQ Web site** www.tceq.state.tx.us

- **Scrap Tires**

<http://www.tceq.state.tx.us/permitting/registration/tires/>

http://www.tceq.state.tx.us/admin_folder/financial_administration/revenue/scrap_tire_sites.html

<http://www.tceq.state.tx.us/permitting/registration/tires/recycling.html>

- **Sludge**

http://www.tceq.state.tx.us/permitting/water_quality/wastewater/sludge/WQ_sludge_AIR.html

http://www.tceq.state.tx.us/nav/permits/sewage_sludge.html

- **TCEQ Occupation License Online Registration and Renewal**

<http://www.tceq.state.tx.us/nav/permits/licenses.html>

- **Rules and Rulemaking**

http://www.tceq.state.tx.us/nav/rules/rules_rulemaking.html

- **Small Business and Local Government Assistance**

The TCEQ's Small Business and Local Government Assistance (SBLGA) program provides confidential technical assistance without threat of enforcement.

<http://www.tceq.state.tx.us/assistance/sblga/sblga.html>

<http://www.tceq.state.tx.us/files/gi-002a.pdf> 4121055.pdf