



CONTRACTOR SAFETY ORIENTATION



Introduction

- Orientation is given to ensure that contractors are working safely and in accordance OSHA regulations and Lockheed Martin Aeronautics (LM Aero) Contractor Environment Safety & Health Handbook (PM-8013). PM-8013 is received by all general contractors prior to site arrival, and can be obtained by consulting with your specific contract manager.
- Contractors may be instructed to **stop work** if a potential risk to personnel, the environment, equipment, or facilities is observed at LM Aero.
- Any willful or repeat violations may result in work being stopped and the offending contractor employee being removed from the worksite.



LM Aero Certifications

LM Aero's Environmental Policy – ISO 14001:

At LM Aero, we believe in protecting and safeguarding our environment. This commitment extends beyond our company bounds to encompass our families, communities and business partners.



- Committed to protecting employees, environment, and local communities.
- Important to know proper hazardous waste disposal and who to contact in the event of an environmental mishap.



PM 8013

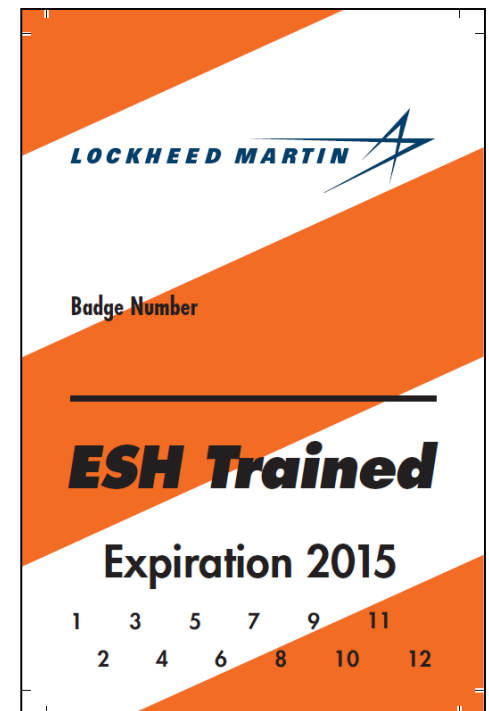
- PM 8013 is LM Aero's Contractor Safety Handbook- Available to all contractors through general contractors or primary subs
- LM Aero uses this handbook as a safety policy for all work done on LM premises by contractors
- Recent Revision- OSHA 30 Hour (510, 511) Construction/Maintenance type Contractors' supervisor and/or superintendent shall have received a minimum of 30-hour OSHA Construction Safety Training



ESH Trained Badge / Escort

You will be issued an “ESH Trained Badge” and the end of this training.

- Badge must be displayed at all times.
- Keep you badge, do not return it to Security. Your training is valid for 12 months if you are committed to working safely while on site.
- If you lose your badge, you will be required to attend this training session again.
- Unless issued a blue or green photo contractor badge, you must be **escorted** at all times while on LM property.
- Your badge expires on the last day of the month punched at the bottom of the badge.





Emergencies & Incident Reporting

- **Fire / Rescue / Injury / Emergency Medical / Security**
 - Dial **911** from a plant telephone.
 - If calling from a wireless telephone dial **817-777-FIRE (3473)**.
- For fires you can activate a fire alarm pull-station. Please note that many alarms on-site are silent, so even if the alarm is activated you may not hear an audible warning.
- After calling emergency number, notify supervisor and LM POC.
- All injuries, near misses, or property damage no matter how small, must be reported immediately to your LM Aero POC. This applies even if you have already called emergency services.





Emergency Procedures

Response to Fire Alarm

1. Review with your supervisor and become familiar with the nearest exits, evacuation routes and evacuation assembly areas.
2. If the fire alarm sounds, proceed to the nearest exit, leave the building, and go to your evacuation assembly area.
3. After you evacuate, check in with your Supervisor or LM Aero POC.



Emergency Procedures



Emergency Evacuation

1. Review with your supervisor and become familiar with the nearest exits, evacuation routes and evacuation assembly areas.
2. Listen to all evacuation announcements on PA system.
3. Proceed to the nearest exit, leave the building, and go to your evacuation assembly area.
4. After you evacuate, check in with your Supervisor or LM Aero POC.

Shelter-In-Place

1. Remain indoors and follow instructions.
2. Seek shelter in the event of a tornado or severe thunderstorm or as instructed by a shelter-in-place notification.
 - Depending on location, usually your nearest restroom, notated with small red sign with white writing and a tornado.
3. Return to duties ONLY after “All Clear” is given.





Emergency Procedures

Severe Weather When Working Outside

- Monitor hazardous weather conditions.
- All outdoor work must be suspended if hazardous weather or lightning is approaching.
- Notify LM POC that you are sheltering due to severe weather.
- In order to return to work, the hazardous weather must pass **AND** your Lockheed Martin point-of-contact must give the all clear to resume.



Hazard Communication

- Approval required for all chemicals brought on site
- Written Hazard Communication Program
- Dial Emergency Number in case of spill
- Labeling Requirements – All Containers Must Be Labeled
 - The GHS-inspired standards will require chemical manufacturers and importers to label chemical containers with 1) a harmonized signal word 2) GHS pictogram(s) 3) a hazard statement for each hazard class and category and 4) a precautionary statement.





Personal Protective Equipment (PPE)

- Requirements for the use of PPE will be determined by your employer and LM Aero.
- PPE must be provided by your employer before starting any hazardous work.
- Employee must be trained on the use and care of PPE.



Ear Muffs



Ear Plugs



Dust Mask



Gloves



Hard Hat



Footgear



Respirator



Vehicle Safety

- **Seat Belts:** Must be used at all times.
- **Cell Phones:** No talking while driving unless hands-free device is used. No texting and driving.
- **Follow posted traffic and speed limit signs:**
 - In-plant speed limits:
 - 20 mph (unless otherwise marked)
 - 15 mph in parking lots
 - 5 mph within buildings
- **Pedestrians, aircraft, and emergency vehicles** always have the right of way.
- **Traffic rules enforced by Security.**
 - LM Aero Safety or Security has the right to suspend/revoke driving privileges for unsafe driving practices.



Vehicle Safety (continued)

- Per PM-8013:

- Contractors shall label all powered industrial vehicles (i.e. golf carts, fork lifts, scissors lifts) and personal vehicles with company name so that it is easily recognizable to LM personnel.

- Riding in the bed of trucks or other vehicles without a seat designated by the manufacturer is prohibited on LM premises.

- The Contractor shall ensure that each powered industrial truck (fork lift) operator is competent to operate a powered industrial truck safely, as demonstrated by the successful completion of the training and evaluation specified in OSHA 29 CFR Part 1910.178(a)



Flightline Safety

- Active Flightline
- Share runway with NAS Fort Worth JRB.
- Contractor personnel are not permitted on the flightline unless in the performance of a contractual job task.
- Contractor employees must receive Foreign Object Debris (FOD) training prior to entering flightline area.
 - Training is set up through the LM POC and Kevin Suarez in accordance with the LM training department.
- Entry onto the flightline requires POC authorization and shall only be through the designated FOD checkpoints.
- Do not enter Aircraft Run Stations unless authorized.

Fall Protection

Fall Protection

LM Aero Fort Worth has mandatory fall protection requirements:

- Type of Protection Determined by Competent Person
- Full Body Harness, Shock Absorbing Lanyard
- Anchorage Point Capable Of 5,000 Lbs. Of Static Force
- Harness Storage
- 100% Tie-Off. Use double lanyard if needed
- Tie off is needed at point work is being done **ten** feet from any leading edge
- Fall Protection D-Rings Only, No Rigging Chokers
- No Knots In Lanyards



Failure to follow Fall Protection requirements may result in you being removed from the site.



Lockout / Tagout Safety (LOTO)

- Written Program Required
- You must be trained on your company's LOTO program.
- All Hazardous Sources of Energy must be locked and tagged out. (e.g. electrical, mechanical, gravitational, hydraulic, pneumatic, chemical, thermal)
- Notify LM POC before LOTO and exchange information.
- All employees involved must have their own lock on all energy isolation devices.



Front Back

Some LM Aero's energy control lockout and tagout devices are shown here. > >



Hearing Protection

- Must be used when exposed to high noise levels.
- Rule of Thumb: If you have difficulty hearing or understanding a "normal" tone of voice at a distance of about three feet, noise levels are probably exceeding safe levels.
- Employer must provide hearing protection devices.
- Employer must ensure employees are trained in the proper use and care of their hearing protection equipment.

DECIBEL - dB(A)	EQUIPMENT
112	Pile driver
110	Air arcing gouging
108	Impact wrench
107	Bulldozer - no muffle
102-104	Air grinder
102	Crane - uninsulated cab
101-103	Bulldozer - no cab
97	Chipping concrete
96	Circular saw and hammering
96	Jack hammer
96	Quick-cut saw
95	Masonry saw
94	Compactor - no cab
90	Crane - insulated cab
87	Loader/backhoe - insulated cab
86	Grinder
85-90	Welding machine
85	Bulldozer - insulated cab
60-70	Speaking voice

Double protection recommended above 105 dB(A)

Hearing protection recommended above 85 dB(A)

Table 1: Some typical noise levels found on construction sites

Excavation / Trenching

- Inspection
 - Newly Excavated Areas Must Be Inspected by Competent Person Prior to Personnel Entering
 - Inspected Prior to Start of Shift or anytime conditions change
- Protective Systems
 - Required for excavations with a depth of 5 feet or more
 - May also be required if less than 5 feet when soil conditions pose a potential risk to employees
 - Spoils must be kept back from edge of excavation a minimum of two feet
- Access
 - Ladder or stairs required when excavation depth is four feet or greater
 - No more than 25 feet of travel in any direction to reach access point



Not properly sloped, benched, etc.



Not properly sloped, benched, etc.

Hot Work & Housekeeping

Hot Work

- Any hot work involving arc welding, torch cutting, open flames, grinding or sparks requires a **Hot Work Permit**.
- Hot Work Permits are issued by the LM Aero Fire Department.
- Instructions for obtaining a **Hot Work Permit** may be obtained through your LM Aero POC.
- Permits must remain in the work area and be available for inspection by LM Safety.

Housekeeping / Fire Prevention

- All Work Areas Shall Be Kept Clean And Orderly.
- Outside Dumpsters Shall Be Kept Covered And Closed Unless In Use.
- Aisles And Exits Must Be Kept Clear At All Times.
- Electrical Cord And Hoses Shall Be Kept Out Of Walkways.
- Fuel Must Be Stored In Safety Cans
- No Storage Of Flammable Liquids Inside Unless In Approved Flammable Cabinet.
- Propane Cylinders
 - Must Be Stored Outside.
 - Refueling Of Propane Equipment Must Be Performed Outside.

Confined Space Entry

Confined Space Entry

- Your company **MUST** have a written confined space program.
- All entrants and attendants must be trained on the program and how to use confined space equipment.
- All sources of hazardous energy must be locked and tagged out prior to entering confined space.
- Confined space must reviewed by competent person prior to entry.
- Rescue stand-by services must be arranged with Lockheed Martin Fire Department prior to entry.



Asbestos

- Silicate Mineral
- TSI, Surfacing, Miscellaneous
- OSHA 29CFR1926.1101: Class I, II, III, IV
- Health Effects
 - Asbestosis
 - Lung Cancer
 - Mesothelioma



Lead Based Paint

- Toxic metal
- Chemical symbol Pb
- Older paint is more likely to have lead based paint
- OSHA 29CFR1926.62: Class I, II, III
- Health Effects
 - Nervous System
 - Reproductive System
 - Circulatory System

Hexavalent Chromium

- Employees exposed to Cr(VI) are at increased risk of developing serious adverse health effects including lung cancer, asthma and damage to the nasal passages and skin.
- Examples of major industrial uses of Cr(VI) compounds include: chromate pigments in dyes, paints, inks, and plastics; chromates added as anticorrosive agents to paints, primers, and other surface coatings; and chromic acid electroplated onto metal parts to provide a decorative or protective coating.
- An exemption from the standards is provided for employers who have objective data demonstrating that a material containing chromium or a specific process, operation, or activity involving chromium cannot release dusts, fumes, or mists of Cr(VI) in concentrations at or above 0.5 micrograms per cubic meter of air ($0.5 \mu\text{g}/\text{m}^3$) as an 8-hour time-weighted average (TWA) under any expected conditions of use.



Important Telephone Numbers

Emergency Only Numbers

To Report a Fire, Injury, Chemical Spill or Medical Emergency:

In-plant extension.....**911**

When calling from a cellular telephone.....**817-777-FIRE (3473)**

Non-Emergency Numbers:

Environmental, Safety & Health Help Line **866-665-5151**

(Non-Urgent)

Safety & Health On-Call (24 hours a day) **817-437-6090**

(Not an Emergency but Urgent)

Fire Protection Services **817-777-2163 or 817-777-2164**

(Hot Work Permits & Confined Space Rescue Stand-By)

Facility Protection Services **817-777-2567 or 817-777-2569**

Gate 2 (Contractor Gate) **817-777-4507**

(After Hours) Gate 6 **817-777-4513**

Maintenance Desk **817-777-3134**



Conclusion



Thank you.....

for making Lockheed Martin a safer place to work.