

COURSE: NR-35 – (MOBILE) ELEVATED WORK PLATFORM

SCOPE AND APPLICABILITY:

Train and certify professionals to operate lifting equipment and other lifting work platforms correctly and safely in accordance with industry standards. Users are recommended to ensure that personnel directly supervising MEWP operators are also trained.

REGULATIONS & STANDARDS

- ABNT NBR 16776 - Treinamento de Plataforma Elevatória Móvel de Trabalho;
- NR-18 - Condições e Meio Ambiente de Trabalho na Indústria da Construção;
- NR-35 - Cartilha de Segurança em Serviços de Manutenção de Fachadas;
- NR-34 - Condições e Meio Ambiente de Trabalho na Indústria da Construção e Reparação Naval;
- NR-12 (Anexo XII) - Equipamentos de Guindar para Elevação de Pessoas e Realização de Trabalho em Altura;
- OSHA 1910.67 - Vehicle-mounted elevating and rotating work platforms;
- OSHA 1926.453 - Technical Guidelines for Mobile Elevated Work Platform (MEWP);
- ANSI A92 - Mobile elevated work platforms (MEWPs);
- Government of DUBAI: DM-PH&SD-P7-TG - Technical Guidelines for Mobile Elevated Work Platform (MEWP).

COURSE CONTENT:

a) Selection of appropriate MEWPs from the various classifications, including available options:

- Mast;
- Telescopic;
- Scissors (scissor);
- Sole proprietorship;
- Articulated (cherry picker).

b) Purpose and use of operating manuals, nameplates, stickers and safety rules;

c) Understanding that the operating manuals are an integral part of the MEWP and need to be stored properly in the MEWP weatherproof compartment when not in use;

d) Validation that the annual inspection is up to date on the plate or sticker present in the MEWP:

- Safe inspection, adjustment and maintenance;
- Periodic inspection.

e) Knowledge of how to carry out a pre-use inspection;

f) Liabilities associated with problems or malfunctions that affect the functioning of the MEWP;

g) Knowledge and understanding of factors that affect stability:

- Balance and stability.

h) Recognition and prevention of hazards associated with the operation;

- Risk analysis and General aspects of accident prevention;
- Safety for mechanical, electrical and other relevant risks;
- Notions about accidents and diseases resulting from exposure

to existing risks in the machine, equipment and implements;

- Impact with structures external to the platform;
- Unexpected movement of the platform;
- Electricity
- Fall from heights;
- Falling objects
- Functioning of protections; how and why they should be used;
- How and under what circumstances a guard may be removed, and by whom, in most cases only inspection or maintenance personnel;
- What to do, eg contact the supervisor, if a guard has been damaged or has lost its function, failing to ensure adequate security;
- Safety principles (Method of work and operation) when using the machine or equipment;
- Machine and equipment lockout system during inspection, cleaning, lubrication and maintenance operations.
- Safety signage;
- Procedures in an emergency situation; and First Aid;
- Notions of Rescue at Height.

i) Knowledge and understanding of workplace inspections and that these must be carried out before each use (risk analysis);

j) Knowledge and understanding of the dangers of wind and weather conditions;

Elevated Work Platform

k) Complete understanding of the intended purpose and function of MEWP controls, including ground, basket and emergency descent controls:

- Operational procedures;
- Instruments and panel;
- Horizontal and vertical shift operations.

l) General knowledge of various MEWPs, features and devices specified by the manufacturer to include physical characteristics and other options of the machine:

- Maximum security capability;
- Maximum working capacity;
- Movement Limitations;
- Replenishment.

m) Applicable regulations, standards and safety rules;

n) Use of personal protective equipment (PPE) appropriate to the task, workplace, environment and manufacturer's requirements:

- Risk control measures: Collective Protection Equipment - EPCs and Individual Protection Equipment – EPIs.

o) Safe travel practices:

p) Transport related issues (if appropriate);

q) Understanding that user authorization is required to operate the MEWP;

- Work permission.

r) Understanding that protecting MEWP from unauthorized use is necessary;

s) Requirement for familiarization in addition to training;

t) Understanding of the hazardous location(s) (flammable or explosive atmospheres);

u) Warnings and instructions:

- Prohibitions.

v) Hazards associated with high pressure systems;

w) Operator's responsibility to inform MEWP occupants of safety recommendations

x) Safety applicable to the equipment:

- People movement plan;
- Work permit for moving people.

y) Other matters required by the PEMT manufacturer:

- Operating instructions that provide details for safe use;
- Warning to read the manufacturer/remanufacturer's operating manual(s) before operating the MEWP;
- Transport, handling and storage of information;
- Information on putting the unit into service;
- Periodic inspections or tests recommended by the manufacturer/remanufacturer;
- Maintenance information;
- Parts that are removable for functional reasons (see 7.4);
- PEMT descriptions, specifications and classifications;
- List of MEWP functions, features, operating characteristics, limitations and devices to be included in the familiarization;
- List of MEWP functions and devices to be included in a pre-use inspection; and

Permissible operating ambient temperature range.

COURSE DESIGN:

Theoretical – 8 hours

Practical – 8 hours

TOTAL: 16 hours

The refresher course can be done in 4 hours.

PREREQUISITE(S):

Have a valid certificate of NR-35 - Work at Heights training;

MINIMUM/MAXIMUM NUMBER OF DELEGATES

This course requires a minimum of 1, and a maximum number of 12 trainees.

To offshore trainings, the course number of attendees will comply with the vessels/rig necessity.

MAIN SAFETY ISSUES:

- Start by listing item by item, which can be a risk when performing the training;
- Bear in mind that we do not expose anyone to relevant risk at the time of practice;
- Operation planning;
- Equipment inspection;
- Risk analysis;
- Rescue plan;
- Familiarization with the equipment;
- Reading the lifting platform instruction manual;
- Attention to the details;
- Assessment of the work site and route;
- Perimeter insulation;
- Completion of the Required Document.

REQUIRED EQUIPMENT:

- Safety equipment for working at heights;
- Lift platform;
- Place to carry out the practice;
- Lift platform instruction manual.

PROCEDURE FOR PRACTICAL EXERCISES:

- Visual inspection and MEWP familiarization;
- Main components - identification and function;
- Conducting pre-use inspection - carrying out daily checks and inspections;
- Planning the travel route and inspection at the work place;
- MEWP preparation for work (if applicable);
- Operation and function of all controls - completing course tasks;
- MEWP parking and protection.

CERTIFICATION:

Training certificate signed by responsible Engineer accredited by Brazilian CREA.

CERTIFICATE VALIDITY PERIOD:

2 years.