Logistics and equipment operation

R.483 — Mobile cranes (A lattice, B telescopic)

Five days to operate a lattice-boom or telescopic-boom mobile crane, from set-up to setting the load down. Recommendation R.483 is the framework: load charts, outrigger set-up and ground pressure, wind, power lines, positioning, precision manoeuvres and work with the banksman. The course ends with a theory test and a practical test for each category, on which the employer bases the driving authorisation.

Duration : 5 days

Objectives

1. Distinguish categories A (lattice boom) and B (telescopic boom) and their specific constraints
2. Read a load chart and choose the crane configuration for a given operation
3. Set up the crane: ground type, pressure under the outriggers, spreader plates, obstacles
4. Decide to suspend a manoeuvre because of wind, visibility or proximity of power lines
5. Carry out precise manoeuvres under load in coordination with the banksman

Programme

Day 1 — morning

• Typical accidents: overturning, boom failure, electric contact, falling load

• Roles of the crane operator, banksman, slinger and employer

• R.483 categories A and B; medical fitness, attestation and driving authorisation

• Crane documents: manual, load charts, maintenance log, inspection reports

Day 1 — afternoon

• Technology: carrier, turret, boom, jib, counterweight, outriggers, winches, reeving

• Moment limiter and load state indicator: what they measure, what they cannot see

• Controls and instruments in the operator station

• Reading the manual of the crane used during the session

Day 2 — morning

• Load charts: radius, boom length, counterweight, working sector, outrigger state

• Mass to be lifted: load, accessories, hook block and hook

• Choice of reeving according to load and speed

• Reading exercises on operations taken from your sites

Day 2 — afternoon

• Set-up: ground type and bearing capacity, pressure under outriggers, spreader plates, excavation edges

• Wind: anemometer, manufacturer limits, wind area of the load

• Power lines: distances, barriers, what to do in case of contact

• Positioning: working area, obstacles, barriers, coactivity

Day 3 — morning

• Start-of-shift checks and tests of the safety devices

• Moving the carrier on site

• Setting up: outriggers, levelling, configuration according to the load chart

• Checking the set-up before the first manoeuvre

Day 3 — afternoon

• Unloaded manoeuvres: slewing, luffing, telescoping, hoisting

• First manoeuvres under load, combined movements

• Command signals and radio communication with the banksman

• Review of the day's manoeuvres

Day 4 — morning

- Precise set-down on a target and clearing obstacles
- Controlling load swing and rotation
- Lifting outside the operator's line of sight, guided by the banksman
- Working close to structures and other machines

Day 4 — afternoon

- Specifics of the lattice boom: assembling and dismantling the boom according to the manual (category A)
- Two-crane operations: why they require a written lift plan
- End of shift: folding the boom, road configuration, switching off
- Analysis of mobile crane incidents and their causes

Day 5 — morning

- Full exercise: preparation, set-up, lifting and setting down a load from your site
- Review of load charts and set-up rules
- Individual correction of weak points
- Preparatory quiz for the theory test

Day 5 — afternoon (workshop)

- Theory test: load charts, set-up, wind, power lines
- Practical test by category: positioning, set-up, manoeuvres, end of shift
- Individual feedback on the grids and on points to work on
- Handover of named attestations for category A or B and of the authorisation template

Teaching methods

- Manoeuvres on the mobile cranes used by your teams, in a cleared area of the site
- Load chart reading exercises on your own operations
- Pairs of crane operator and banksman, with roles swapped
- Analysis of mobile crane accidents and their technical and organisational causes
- Delivered in French or Darija, with load charts explained in both languages

Assessment and documents

A preparatory quiz, then a theory test and a practical test for each category, scored on a grid, and an end-of-course evaluation at D+1. Each participant receives a named attestation per category and a numbered training certificate that can be verified online. The company receives the training report, the test grids and a driving authorisation template, which it issues itself.

Bilingual materials for every participant; each classroom course comes with its digital twin on OmniLearn.

Good to know

The five-day programme is intended for a beginner crane operator; for complex operations, the “Lift plan and operational safety” course teaches how to prepare the manoeuvre in writing. The attestation is valid for 5 years.

Practical information

Duration	5 days
Audience	Crane operators, beginners or already in post, mobile crane operators on construction sites or in industry
Prerequisites	Medical fitness obtained beforehand; the “Lifting and slinging” course is useful before the session
Group size	Groups of 6 to 12 participants, in-company
Format	In-company, face to face on your site
Language	French, Darija or English; bilingual materials
Funding	OFPPT special training contracts (TFP), GIAC, Maroc PME: we prepare the applications with you, at no extra cost.
Programme customisation	Programme adapted to your procedures, your equipment and your audience

Frequently asked questions

What is the difference between categories A and B?
Category A covers lattice-boom cranes, whose boom is assembled in sections; category B covers telescopic-boom cranes. The latter is the most common on sites; the former also requires mastery of boom assembly.

Does the course cover driving the carrier on the road?
No. It covers moving on site and using the crane. Driving on the public highway falls under the driving licence suited to the vehicle.

Should a banksman be trained at the same time?
It is useful. The exercises are done in pairs, and a banksman or slinger from your team can attend the practical days. The “Lifting and slinging” course prepares them for this role.