



Levelling a crane

Proper levelling plays a key role in preventing a crane from tipping over during operation. Mobile cranes and boom trucks use outriggers or other stabilizing equipment for levelling.

When levelling a crane, do the following:

- Consider ground conditions. Never place outriggers on unstable ground.
- Place pads under the outriggers.
- Fully extend the outrigger beams onto the pads.



Key factors for successful levelling

The stability of mobile cranes relies on the following:

- The ground beneath the crane should be suitably compacted and levelled.
- The outrigger beams on the crane should be extended to the length or position set out in the crane manufacturer's recommendations.
- The outrigger jacks should be extended to raise the crane's wheels off the ground and free them of weight.
- The pads positioned under the outrigger jacks should be big enough to prevent the jacks from sinking into the ground while the crane is lifting loads.

Adequate ground conditions are essential

Adequate ground conditions are essential for safe crane operations. The crane's stability and rated capacity depend on these conditions.

Do not assemble or use a crane unless the following apply:

- The ground is firm, drained, and graded enough so that, together with the use of supporting materials (e.g., gravel or concrete), the crane will be stable.
- The crane manufacturer's specifications for adequate support and degree of level of the equipment are met.

For more information, see the [Levelling a Crane](#) Safe Work Practice document at bccranesafety.ca.

OHS Regulation reference: section 14.67, 14.69

Project:

Address:

Employer:

Supervisor:

Date:

Time:

Shift:

Number in crew:

Number attending:

Other safety concerns or suggestions:

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Record of those attending:

Name: (please print)	Signature:	Company:
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Manager's remarks:

Manager:

Supervisor:

(Signature)

(Signature)

For more information on health and safety requirements for crane operations in B.C., refer to the *Workers Compensation Act* and the OHS Regulation on worksafabc.com.