# Introduction

The unit provides a general guide for establishment of communication tower and masts. It is practically oriented and presents each step of the process in chronological order.

## Timing/duration

Circa 2 hours

## Content outline and main topics covered

Types of Tower (5min)
How to choose a tower type (5 min)
The Base (30 min)
  (Digging hole, re-bar cage, concrete, hydration etc)
Assembling of tower (20 min)
  (Pre-assembly, inspection, gin pole vs crane)
Guy Cables (30 min)
  (pre-load, termination, tension, plumb, temporary guys)
Climbing (10 min)
Lightening protection (10 min)
Corrosion (10 min)

## Target audience

Anyone that wants to build a small tower/tall or procure a high tower/mast.

## Prerequisite skills/knowledge

No prerequisites are needed.

## Unit objectives/expected outcomes

- To understand the basic process of erecting tower/masts from start to finish
- To gain useful knowledge for decision making in terms of types of towers/masts, tools, time planning etc.
- To be aware of the greatest risks involved in erecting towers/masts

## Pre-workshop activities

None
<table>
<thead>
<tr>
<th>Notes on using exercises</th>
<th>No exercises included.</th>
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</thead>
<tbody>
<tr>
<td>Resources included with unit</td>
<td>This unit comes with</td>
</tr>
<tr>
<td></td>
<td>- Handout</td>
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<tr>
<td></td>
<td>- Slides</td>
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<tr>
<td></td>
<td>- Additional Resources</td>
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<tr>
<td>Additional trainer resources</td>
<td>See Additional Resources under “Full implementation guide”.</td>
</tr>
<tr>
<td>Equipment needed</td>
<td>Not applicable. If possible, equipment for guying (guy wire, thimbles, turnbuckles, guy wire tension gauge) and climbing (harness, ropes) could be demonstrated.</td>
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<tr>
<td>Comments</td>
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