



**Shadow
Estimating
Services**

ONSHORE

OIL & GAS CONSTRUCTION

584 Pages with 11,551 +/- Norms/Speeds

**General Construction
Green & Brownfields Projects**



Onshore Oil & Gas Construction, General Construction, Green & Brownfields Projects

584 Pages with 11,551.00 +/- Norms/Speeds in this Book

The aim of this Manual/Book is Consistency for General Construction Green & Brownfields Projects, ranging from 10,000.00 to 500,000.00 Man-Hours. By applying the same norms /speeds and time standards for each item we can accurately measure our results every time.

All the norms / speeds are given in MATRIC Units of Measure (UOM)

The are 584 Pages with 11,551.00 +/- Norms/Speeds in this Book

Onshore Construction Onshore Green & Brownfields

\$ 550.00

The book/manual will bring consistency by applying the same norms/speeds for the same item which will help in measuring performance accurately. With the project factor explained, users will also know what to look for when assessing results.

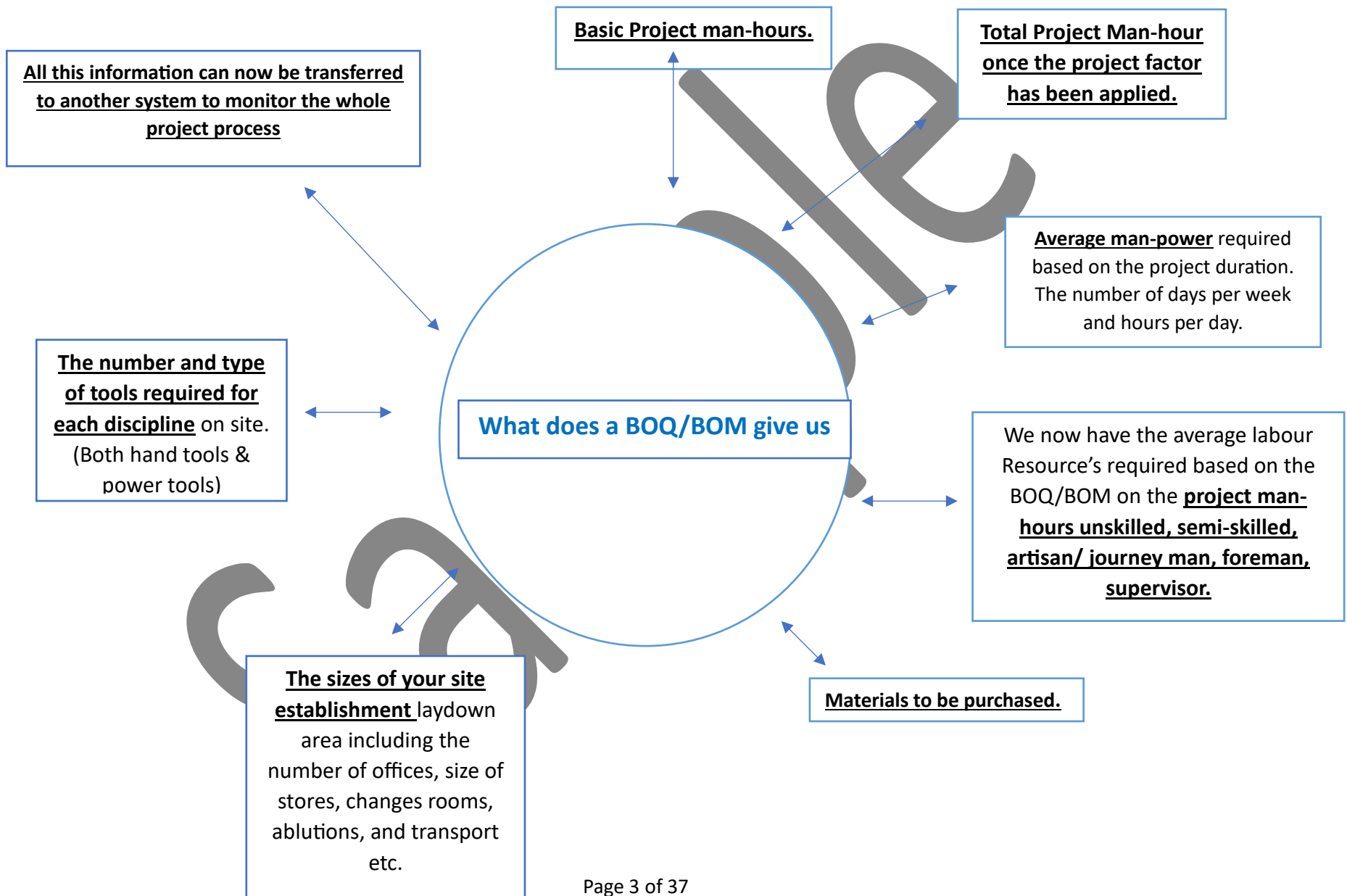
The index is clear and highlights the relevant section of the electrical construction section. When you start the calculation of the BOM (Bill Of Materials)/BOQ (Bill Of Quantities), use a WBS (Work Breakdown Structure) to group the different man-hours section. This will provide you with the basic man-hours, and once the project factor is applied, you will obtain the project productive man-hours for each WBS Groups.

From this, we can then identify where the work fits within the project. Once this has been obtained, you can now calculate your **non-productive costs based on the man-hours**. If the project duration is not given, you could assume a reasonable timeframe (Not too long or too short and inform the client that the final feedback will be provided once the actual duration is confirmed).

When calculating the non-productive cost for personnel, keep in mind that they may be required to start **one to two months before the actual project start date. (For planning, organization, set up of the site establishment, accommodation etc).** Similarly, personnel may be needed for up to **three months after the project close-out.**

When reviewing the WBS/Activity man-hours, you will be able to see the number of supervisors required for each WBS/Activity.





Onshore Oil & Gas Construction, General Construction, Green & Brownfields Projects

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PAINT & INSULATION UNIT WORK HOURS

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In each of the above section we have two parts

- 1) Design Safety
- 2) Engineering safety

We also have four types of Tasks / Activities

- 1) **simple**
- 2) **Normal**
- 3) **Complicated / Complex**
- 4) **Standard**



Crew Mix 1 for Large to Medium Size Projects

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Crew Mix 1 for Large to Medium Size Projects

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**FINAL PHASE OF CONSTRUCTION
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