



**Shadow
Estimating
Services**

ELECTRICAL & INSTRUMENTATION

**STANDARD NORMS FOR THE ELECTRICAL &
INSTRUMENTATION CONSTRUCTION INDUSTRIES**

483 Pages with 4 040 +/- construction Norms / speeds

Electrical & Instrumentation Construction Green & Brownfields



The aim of this Manuals/Books is Consistency for Electrical Green & Brownfields Projects from 10,000.00 Man-Hours to 500,000.00 Man-Hours the same norms /speeds/times for the same item every time so we can measure our results every time

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

The are 4,040 Total Norms+/- 483 pages In this manual

Electrical Construction Norms Green & Brownfields Norms

\$ 500.00

The write up for the electrical page

The books / manuals will bring consistence every time by using the same norms / speeds for the same item which will help in measuring performance and with the project factor explained as to what to look for

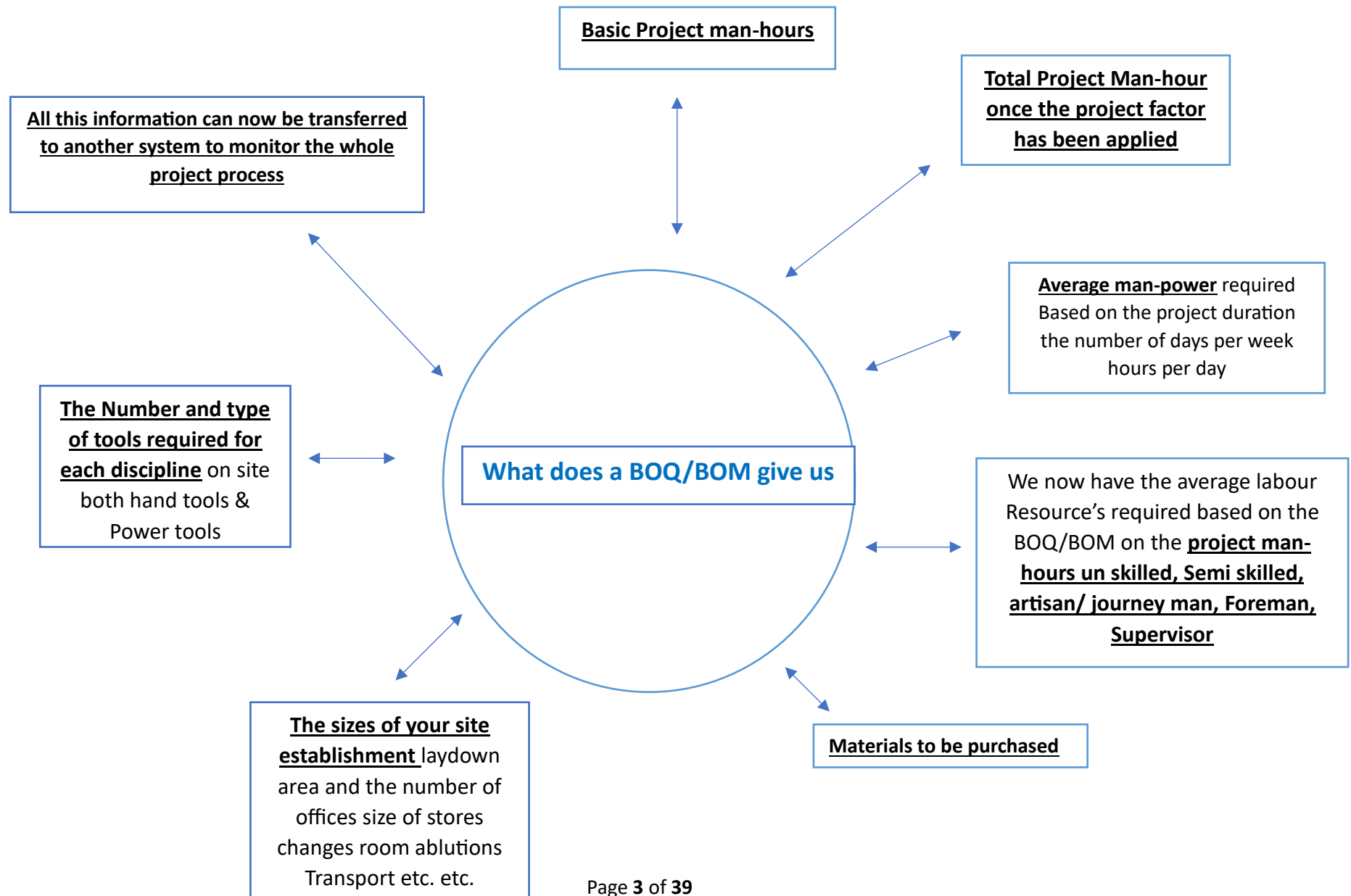
The index is clear and show the section of the electrical construction section when you start the Calculation of the BOM/BOQ use a WBS to Group the different man-hours section which will give you the basic man-hours Plus the increase with project factor will give you the project Productive man-hours in there WBS Groups

from this we see where the works is in the project. Once this has been achieved you can now put together your **none productive cost based on the man-hours** i.e. if a project duration is not given you could assume one not to long but not to short (Inform the client he will get feedback to you)

when putting together the none productive cost for personal they may be required to start **one of two months early before the actual start date Planning, Organization, Set up of the site establishment Accommodation etc. etc. and up to 3 months after the close out** of the project

when looking at the WBS/Activity man-hours you will be able to see the required number of supervisor required for each WBS/Activity





Pure Electrical & Instrumentation Heavy Industrial Green & Brownfields Upgrades

Includes Following

483 Pages with 3,809.00 +/- Electrical Construction Norms / Speeds

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This type of termination is most commonly used Multi Core PVC SWA PVC OVER ALL SCREENED
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2) Termination of Armoured cables up to 6,6kV to 30kV Material Cone, lead/solder heat shrink kits Single & Multi Core paper / lead type Cables These Norms exclude the following Excavation of Area or trenches, preparation of work area building /erecting of a tent and scaffolding

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- 1) Design Safety
- 2) Engineering safety

We also have four types of Tasks / Activities

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



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