



Training Plan

WP type: Business

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Title: Electronics Engineer Training Programme

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Training Plan

Scope

The purpose of this document is to provide a training route for electronics engineers such that the core competences required of them in the role are satisfied. The actual training done may vary according to the experience of the engineer in question. The core competencies are:

- To design electronic circuits
- To get designs manufactured
- To test and rectify electronics
- To manage clients and suppliers
- To understand and play a full part in the project planning and implementation process
- To generate quotations
- To understand the basic marketing process

Vision, Mission and Values

To understand the vision, mission and values of JonJu Tech Ltd. These are communicated by the owner using the material on the website as a backdrop.

Sales

The following functions will be covered

- Assessing lead quality
- Quoting
- Client handling
- The sales cycle (Linked In, website, order) and the dependencies thereof.
- The website and its contents
- The basics of search engine optimisation

Quality

The following functions will be covered:

- 5D non-conformance

Project Planning

The following functions will be covered:

- Agile project planning and Atlassian's Jira

Specifications

The following functions will be covered:

- The reason for writing specifications
- The principle that every clause must have a viable test, and that if it isn't possible to specify such a test the issue in question must require a feasibility study
- The avoidance of wooden specifications (re: Cass)
- The spirit of the specification (re: Cass)
- How to write a specification using the company template
- The principle of approval and how it is implemented

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Schematics

The following functions will be covered:

- Schematics using Altium

Layout

The following functions will be covered:

- The main principles of layout (re: website)
- Layout using Altium
- ESD
- EMC

Manufacturing

- The construction of a PCB and how it is manufactured (re: website)
- The assembly process
- Testing and inspection of PCBAs

Firmware and Software

- Generating firmware for PIC microcontrollers using MPLAB X
- Programming microcontrollers using the ICD4
- Modularity in firmware
- Test Driven Design (TDD) of firmware