

**8-Bit Computer**

**V1**

# Main Points

* No Data Bus standardization
* All separate (development) boards

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| **Command Encoding** | | | | |
| **V1** | **17/05/2020** | | | |
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| **Assembly Command** | **Hex** | **Bin** | **Parameters Expecting** | **Cycles** |
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| **LDA** | 01 | 0000 0001 | [Mem Addr] | 12 |
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| **Micro Processes** | | | | | | | | | | | | | | |
| **Your Coffee Shop** | | | | | | | | | | | | | **17/05/20** | |
|  | | | | | | | | | | | | | | |
| **LDA** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | | **-** |
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| **EXPENSES** | **JAN** | **FEB** | **MAR** | **APR** | **MAY** | **JUN** | **JUL** | **AUG** | **SEP** | **OCT** | **NOV** | **DEC** | | **YTD** |
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| **NET INCOME** | **($2,996)** | **$1,594** | **$2,401** | **($3,851)** | **($156)** | **$676** | **$1,488** | **$1,754** | **($253)** | **($1,891)** | **$2,270** | **$1,213** | | **$2,246** |
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APPENDIX

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| **START-UP COSTS** | | | | |
| **Your Coffee Shop** | **January 1, 2018** | | | |
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| **COST ITEMS** | **MONTHS** | **COST/ MONTH** | **ONE-TIME COST** | **TOTAL COST** |
|  | | | | |
| **Advertising/Marketing** |  |  |  | $0 |
| **Employee Salaries** |  |  |  | $0 |
| **Employee Payroll Taxes and Benefits** |  |  |  | $0 |
| **Rent/Lease Payments/Utilities** |  |  |  | $0 |
| **Postage/Shipping** |  |  |  | $0 |
| **Communication/Telephone** |  |  |  | $0 |
| **Computer Equipment** |  |  |  | $0 |
| **Computer Software** |  |  |  | $0 |
| **Insurance** |  |  |  | $0 |
| **Interest Expense** |  |  |  | $0 |
| **Bank Service Charges** |  |  |  | $0 |
| **Supplies** |  |  |  | $0 |
| **Travel & Entertainment** |  |  |  | $0 |
| **Equipment** |  |  |  | $0 |
| **Furniture & Fixtures** |  |  |  | $0 |
| **Leasehold Improvements** |  |  |  | $0 |
| **Security Deposit(s)** |  |  |  | $0 |
| **Business Licenses/Permits/Fees** |  |  |  | $0 |
| **Professional Services - Legal, Accounting** |  |  |  | $0 |
| **Consultant(s)** |  |  |  | $0 |
| **Inventory** |  |  |  | $0 |
| **Cash-On-Hand (Working Capital)** |  |  |  | $0 |
| **Miscellaneous** |  |  |  | $0 |
| **ESTIMATED START-UP BUDGET** |  |  |  | **$0** |

INSTRUCTIONS FOR GETTING STARTED WITH ESTIMATED START-UP COSTS

Determining a business's startup costs is critical to ensure enough cash is available to begin business operations within the budgeted time frame as well as within the cost budget. Startup costs typically fall within two categories, monthly costs and one-time costs. Monthly costs cover costs that occur each month during the startup period and one-time costs are costs that will be incurred once during the startup period.

**Steps for Preparation:**

**Step 1:** Enter your Company Name and the Date you are preparing this estimate.

**Step 2:** Enter the number of months and the monthly cost for each cost item that is recurring. For one-time costs only, skip the monthly costs. If there are cost items that have both recurring and one-time amounts, you can enter those as well. The total cost will calculate automatically in the far right column.

**Step 3:** Once you have completed entering all of the costs, review the individual items and total amount to see where you might fine tune it or move something out into the future when you have more revenue coming in.

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| **START-UP COSTS** | | | | | | | | | | | | | |
| **Your Coffee Shop** | **January 1, 2018** | | | | | | | | | | | | |
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| **REVENUE** | **JAN** | **FEB** | **MAR** | **APR** | **MAY** | **JUN** | **JUL** | **AUG** | **SEP** | **OCT** | **NOV** | **DEC** | **YTD** |
|  | | | | | | | | | | | | | |
| Estimated Product Sales | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Less Sales Returns & Discounts | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Service Revenue | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Other Revenue | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| **Net Sales** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** |
| **Cost of Goods Sold** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** |
| **Gross Profit** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** |
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| **EXPENSES** | **JAN** | **FEB** | **MAR** | **APR** | **MAY** | **JUN** | **JUL** | **AUG** | **SEP** | **OCT** | **NOV** | **DEC** | **YTD** |
|  | | | | | | | | | | | | | |
| Salaries & Wages | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Marketing/Advertising | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Sales Commissions | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Rent | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Utilities | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Website Expenses | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Internet/Phone | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Insurance | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Travel | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Legal/Accounting | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Office Supplies | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Interest Expense | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Other 1 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| **Total Expenses** |  |  |  |  |  |  |  |  |  |  |  |  | **$0** |
| **Income Before Taxes** |  |  |  |  |  |  |  |  |  |  |  |  | **$0** |
| **Income Tax Expense** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** |
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| **NET INCOME** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** | **#VALUE!** |
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INSTRUCTIONS FOR GETTING STARTED ON PROFIT & LOSS PROJECTIONS

Completing projections for Profit and Loss of a new company is a good exercise to understand and communicate when the company will begin to break-even and see how sales and profits will grow. The top portion of the model to the left, Revenue, is a good way to forecast sales, month by month for the first year. The lower portion then applies estimated expenses for the same period of time to derive the business' profitability.

**Steps for Preparation:**

**Step 1:** Enter your Company Name and the Date you are preparing this projection.

**Step 2:** Enter for each month, beginning in January or whenever your estimate starts, what you expected sales to be. This could be for products or services or multiple products. You can add lines to this model for additional offerings. From this you should subtract any product returns or discounts that you want to track (these should be shown as negative numbers, for instance -10). Below Net Sales, you would enter the Cost of Goods Sold. These are the direct costs in selling a particular product, for instance the materials costs, assembly labor, or if you purchased the product and resold it, it would be the wholesale cost.

**Step 3:** Enter for each month, the estimated salaries, marketing, utilities and other items you are projecting.

**Step 4:** Once you have completed entering all of the costs, review the individual items and total amount to see where you might fine tune it or move something out into the future when you have more revenue coming in. The objective is to get to profitability and positive cash flow as quickly as possible.