



Module 1

abaCal – INTRODUCTION

**Enter the abaCal world of formulas
We visit the abaCal cloud platform,
applied mathematics on the Internet**

What is abaCal.

Video

<https://www.youtube.com/watch?v=vyHlpt8oSY4>

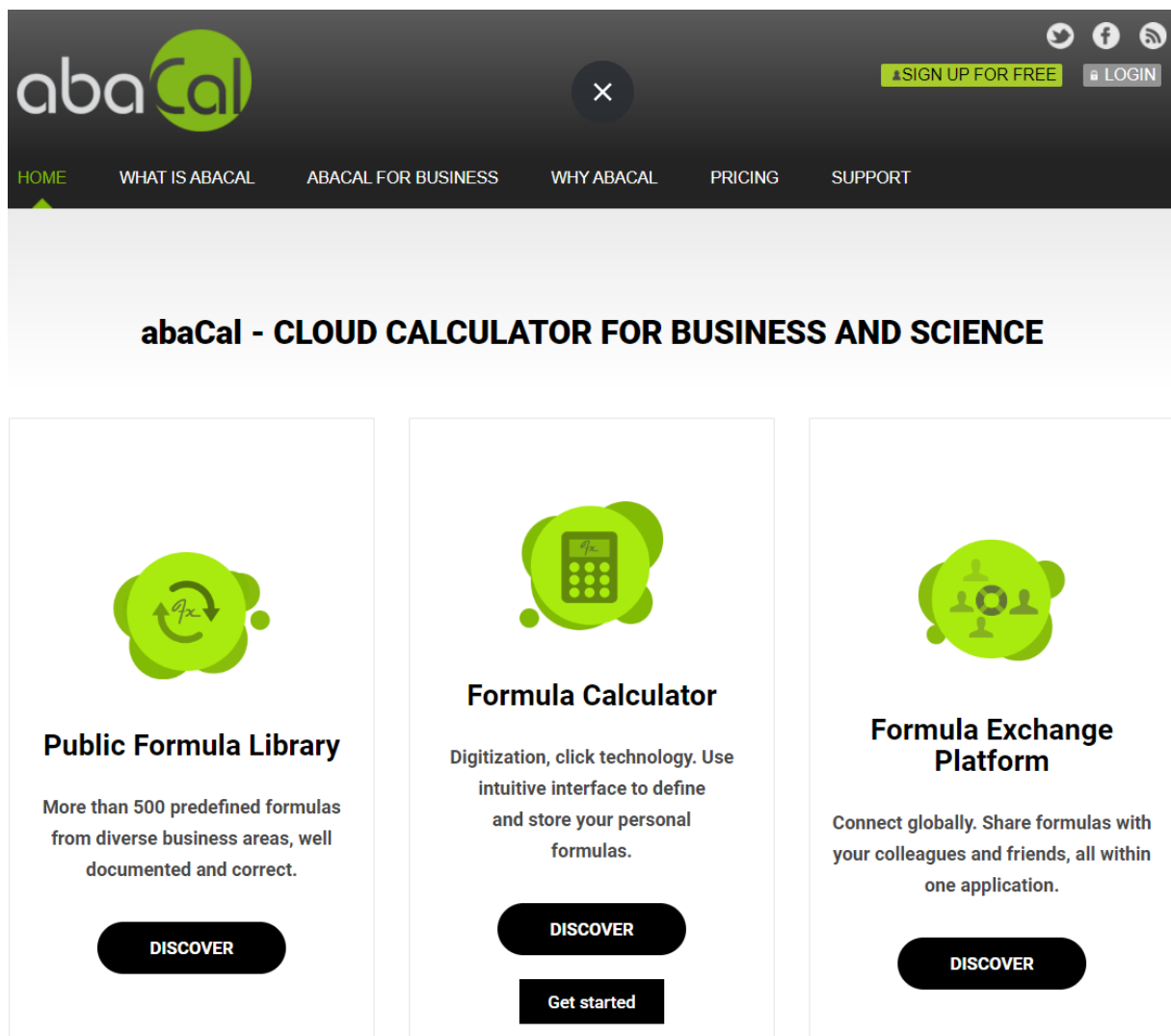


Start with the abaCal homepage

www.abacal.com

You will find the 3 main functions here

- . **Public Formula Library**
- . **Formula Calculator**
- . **Formula Exchange Platform**



The screenshot shows the abaCal homepage with a dark header. The header contains the abaCal logo, a close button (X), and links for SIGN UP FOR FREE and LOGIN. Below the header is a navigation menu with links: HOME, WHAT IS ABACAL, ABACAL FOR BUSINESS, WHY ABACAL, PRICING, and SUPPORT. The main content area features the title "abaCal - CLOUD CALCULATOR FOR BUSINESS AND SCIENCE" and three feature cards. Each card has a green icon, a title, a short description, and a "DISCOVER" button. The first card is for the Public Formula Library, the second for the Formula Calculator, and the third for the Formula Exchange Platform.

Public Formula Library
More than 500 predefined formulas from diverse business areas, well documented and correct.
DISCOVER

Formula Calculator
Digitization, click technology. Use intuitive interface to define and store your personal formulas.
DISCOVER
Get started

Formula Exchange Platform
Connect globally. Share formulas with your colleagues and friends, all within one application.
DISCOVER

Free access to 7 libraries, free of charge and without registration with your own login:

As a visitor to the homepage, it is possible to view formulas of the preferred area (categories) in an open account. The library is accessed in 3 steps:

Step 1: <https://my.abacal.com/LoginLight.po> load


Login to abaCal

Email:

Password:

Forgot password? [click here](#)

If you are not a member [sign up here](#)



Step 2: Enter Engineering@abacal.com into the login

Step 3: Enter "Engineering" in the password.

Enter: Open account

Click select ANDLER formula

Formula account directory of category "Engineering"

Personal Library / My Formulas

SEARCH

		Name ▲	Description	Category	Subcategory
<input type="checkbox"/>		ANDLER	Andler formula, optimized order lot	Engineering	Logistics
<input type="checkbox"/>		BESTANDESKOSTEN	Lagerkosten und Kosten für Sicherheitsbestand	Engineering	Logistics
<input type="checkbox"/>		CONVECTION	convection	Engineering	Electrical engineering
<input type="checkbox"/>		CUTTINGSPEED	when thurning, drilling and milling	Engineering	Mechanical engineering
<input type="checkbox"/>		EFFICIENCY OF PV	efficiency of PV cell	Engineering	Electrical engineering

Representation of the formula ANDLER

Block 1:
Formula name

Name **ANDLER** Description **Andler formula, optimized or**
 Category **Engineering** Subcategory **Logistics**
 OptimizedOrderQuantity = SQRT(2 * AQ * OC / (PU * IR))

Block 2:
Editor with continuous text

Formula Display

Formula Display

$$OptimizedOrderQuantity = \sqrt{2 * AQ * \frac{OC}{(PU * IR)}}$$

Block 3:
Variables and results

Show Errors Significant numbers
 AQ annual quantity
 OC order costs
 PU price per unit
 IR Interest rate
 OptimizedOrderQuantity **400.00**

Standardvariables

My Variables

AM	Anfangsmenge	
AQ	annual quantity	
EM	Endmenge	
FQ	final quantity	
IQ	initial quantity	
IR	Interest rate	[%]
OC	fixed order costs	[USD]
PE	Preis pro Einheit	[CHF]
PU	price per unit	[USD]
SB	Sicherheitsbestand	
SS	safety stock	
ZS	Zinssatz	[%]

Constants

Tips for syntax

Results

Math operations

Logical operations

Functions

Of course, other formulas can be called up.

To work in abaCal is registration is necessary, with your own email address:
<https://my.abacal.com/RegisterLight.po>

As a **registered user**, we offer you **2 free months** in abaCal.