

DEFINITION

Discounted cash flow (DCF) is a method to estimate the value of an investment based on its expected future cash flows

	Market Value	Market Value / E + D
Amount of Equity (E)		#DIV/0!
Amount of Debt (D)		#DIV/0!
		<u> </u>
Beta (β) ³		
Annual Return of the Market (Rm)		
Risk-free Rate (Rf) ⁴		
Cost of Equity (Re)	0.00%	
Effective Interest Rate		
Corporate Tax Rate (T)		
Cost of Debt (Rd)	0%	
		-
WACC ²	#DIV/0!	Assumption: WACC stays the same for the next 3 year



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Discounted cash flow (DCF) is a method to estimate the value of an investment based on its expected future cash flows

	Market Value	Market Value / E + D
Amount of Equity (E)	200	67%
Amount of Debt (D)	100	33%
Beta (β) ³		
Annual Return of the Market (Rm)		
Risk-free Rate (Rf) ⁴		
Cost of Equity (Re)	0.00%	
Effective Interest Rate		
Corporate Tax Rate (T)		
Cost of Debt (Rd)	0%	
1		
WACC ²	0.000%	Assumption: WACC stays the same for the next 3 y



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Amount of Debt (D)	100	33%	
Beta (β) ³		Beta	
Annual Return of the Market (Rm)		Beta is a measur	e of the volatility returns
Risk-free Rate (Rf) ⁴		comparing to th	e market as a whole.
Cost of Equity (Re)	0.00%		
Effective Interest Rate		Risk-free Rate	
Corporate Tax Rate (T)		The risk-free rate	e is the rate of return of ar
Cost of Debt (Rd)	0%	investment with	ZETO TISK.
WACC ²	0.000%	Assumption: WACC sta	ivs the same for the next 3 ve



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Discounted cash flow (DCF) is a method to estimate the value of an investment based on its expected future cash flows

Step 1: Calculating WACC ²			
	Market Value	Market Value / E + D	
Amount of Equity (E)	200	67%	
Amount of Debt (D)	100	33%	
Beta (β) ³			
Annual Return of the Market (Rm)			
Risk-free Rate (Rf) ⁴			
Cost of Equity (Re)	0.00%		
Effective Interest Rate			
Corporate Tax Rate (T)			
Cost of Debt (Rd)	0%		
WACC ²	0.000%	Assumption: WACC sta	ays the same for the r



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	Market Value	Market Value / E + D	
mount of Equity (E)	200	67%	
nount of Debt (D)	100	33%	
a (β) ³	1	Beta	
ual Return of the Market (Rm)	9.20%	Beta is a measur	e of the volatility returr
k-free Rate (Rf) ⁴	1.75%		e market as a whole.
t of Equity (Re)	9.20%		
ective Interest Rate			
rporate Tax Rate (T)			
ost of Debt (Rd)	0%		
		-	
00 ²	6 133%	Assumption: WACC sta	ws the same for the next 3



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	Market Value	Market Value / E + D	
Amount of Equity (E)	200	67%	
Amount of Debt (D)	100	33%	
Beta (β) ³	1	Beta	
Annual Return of the Market (Rm)	9.20%	Beta is a measur	e of the volatility returns
Risk-free Rate (Rf) ⁴	1.75%	comparing to the	e market as a whole.
Cost of Equity (Re)	9.20%		
Effective Interest Rate		Risk-free Rate	
Corporate Tax Rate (T)		The risk-free rate	e is the rate of return of a
Cost of Debt (Rd)	0%	investment with	Zero fisk.
WACC ²	6.133%	Assumption: WACC sta	lys the same for the next 3 ye



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Step 1: Calculating WACC ²			_
	Market Value	Market Value / E + D	
Amount of Equity (E)	200	67%	
Amount of Debt (D)	100	33%	
			-
Beta (β) ³	1		
Annual Return of the Market (Rm)	9.20%		
Risk-free Rate (Rf) ^₄	1.75%		
Cost of Equity (Re)	9.20%		
		1	
Effective Interest Rate			
Corporate Tax Rate (T)			
Cost of Debt (Rd)	0%		
		J	
WACC ²	6.133%	Assumption: WACC sta	ays the same for th



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Discounted cash flow (DCF) is a method to estimate the value of an investment based on its expected future cash flows

Step 1: Calculating WACC ²		
	Market Value	Market Value / E + D
Amount of Equity (E)	200	67%
Amount of Debt (D)	100	33%
Beta (β) ³	1	
Annual Return of the Market (Rm)	9.20%	
Risk-free Rate (Rf) ⁴	1.75%	
Cost of Equity (Re)	9.20%	
)
Effective Interest Rate	5%	
Corporate Tax Rate (T)	17%	
Cost of Debt (Rd)	4%	
		J
WACC ²	7.282%	Assumption: WACC sta



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Step 02: Calculate Forecasted Cash Flow

Step 2: Calculating Forecasted Cash Flow									
	2020	2021	2022	2023	Total				
Beginning Balance					\$0.00				
CASH INFLOWS									
Cash Sales					\$0.00				
Accounts Receivable					\$0.00				
Total Cash Inflows	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
CASH OUTFLOWS									
Investing Activities									
New Fixed Asset Purchases					\$0.00				
Additional Inventory					\$0.00				
Cost of Goods Sold					\$0.00				
Operating Activities									
Operating Expenses					\$0.00				
Payroll					\$0.00				
Taxes					\$0.00				
Financing Activities									
Loan Payments					\$0.00				
Owners Distribution					\$0.00				
Line of Credit Interest					\$0.00				
Line of Credit Repayments					\$0.00				
Dividends Paid					\$0.00				
Total Cash Outflows	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
NET CASH FLOWS⁵	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
ENDING OPERATING CASH BALANCE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				



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Step 02: Calculate Forecasted Cash Flow

Step 2: Calculating Forecasted Cash Flow										
	2020	2021	2022	2023	Total					
Beginning Balance	\$50,000.00	\$18,790.37	\$28,570.75	\$30,000.00	\$127,361.12					
CASH INFLOWS	CASH INFLOWS									
Cash Sales	\$300,000.00	\$450,000.00	\$550,000.00	\$800,000.00	\$2,100,000.00					
Accounts Receivable	\$0.00	\$100,000.00	\$50,000.00	\$30,000.00	\$180,000.00					
Total Cash Inflows	\$300,000.00	\$550,000.00	\$600,000.00	\$830,000.00	\$2,280,000.00					
CASH OUTFLOWS										
Investing Activities										
New Fixed Asset Purchases	\$0.00	\$50,000.00	\$30,000.00	\$80,000.00	\$160,000.00					
Additional Inventory	\$0.00	\$15,000.00	\$30,000.00	\$1,000.00	\$46,000.00					
Cost of Goods Sold	\$5,000.00	\$10,000.00	\$20,000.00	\$40,000.00	\$75,000.00					
Operating Activities										
Operating Expenses	\$3,000.00	\$5,000.00	\$10,000.00	\$8,000.00	\$26,000.00					
Payroll	\$100,000.00	\$200,000.00	\$200,000.00	\$220,000.00	\$720,000.00					
Taxes	\$500.00	\$600.00	\$600.00	\$1,000.00	\$2,700.00					
Financing Activities	Financing Activities									
Loan Payments	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00					
Owners Distribution	\$0.00	\$20,000.00	\$30,000.00	\$50,000.00	\$100,000.00					
Line of Credit Interest	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00					
Line of Credit Repayments	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00					
Dividends Paid	\$0.00	\$100,000.00	\$120,000.00	\$200,000.00	\$420,000.00					
Total Cash Outflows	\$108,500.00	\$400,600.00	\$440,600.00	\$600,000.00	\$1,549,700.00					
NET CASH FLOWS⁵	\$191,500.00	\$149,400.00	\$159,400.00	\$230,000.00	\$730,300.00					
ENDING OPERATING CASH BALANCE	\$241,500.00	\$168,190.37	\$187,970.75	\$260,000.00	\$857,661.12					



STEP 03: Calculate Net Present Value

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	2020	2021	2022	2023	Total
DCF	\$0.00	\$-	\$ -	- \$	\$
Terminal Value (TV) ⁶					
EBIT Multiples (or other metrics)					
EBIT in 2023					
Terminal Value in 2023					\$-
Present Value of TV					\$-
Net Present Value (NPV) - 2021					\$-

Method 2: Cost of Initial Investment								
	2020	2021	2022	2023	Total			
DCF	\$0.00	\$-	\$-	\$-	\$-			
Cost of Investment					\$-			
Net Present Value (NPV) - 2021					\$-			



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Step 3: Calculating Net Present Value							
Mothed 1: Via Terminal Value, Exit Multiples Method							
	2020	2021	2022	2023	Total		
DCF	\$191,500.00	\$ 149,400.00	\$ 159,400.00	\$ 230,000.00	\$ 730,300		
				-			
Terminal value (TV)				1			
EBIT Multiples (or other metrics)							
EBIT in 2023							
Terminal Value in 2023					\$-		
Present Value of TV					\$ -		
Net Present Value (NPV) - 2021					\$ 730,300.00		

STEP 03: Calculate Net Present Value



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Step 3: Calculating Net Present Value						
Method 1: Via Terminal Value, Exit Multiples Method						
	2020	2021	2022	2023	Total	
DCF	\$191,500.00	\$ 149,400,00	\$ 159,400,00	\$ 230,000,00	\$ 730,300	
Terminal Value (TV) ⁶						
EBIT Multiples (or other metrics)	-	-	-	-	10	
EBIT in 2023	-	-	-	-	\$ 50,000	
Terminal Value in 2023	-	-	-	-	\$ 500,000	
Present Value of TV	-	-	-	-	\$ 500,000.000	
Net Present Value (NPV) - 2021	-	-	-	-	\$ 1,230,300.00	

STEP 03: Calculate Net Present Value

Terminal Value

The value of an asset, business, or project beyond the stated forecast period.

Earnings Before Interest and Taxes (EBIT)

An indicator of a company's profitability. EBIT can be calculated as revenue minus expenses excluding tax and interest. EBIT is also referred to as operating earnings, operating profit, and profit before interest and taxes.



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STEP 03: Calculate Net Present Value

Method 2: Cost of Initial Investment						
	2020	2021	2022	2023	Total	
DCF	\$191,500.00	\$ 149,400.00	\$ 159,400.00	\$ 230,000.00	\$ 730,300	
Cost of Investment					\$	
Net Present Value (NPV) - 2021					\$ 730,300	



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STEP 03: Calculate Net Present Value

Method 2: Cost of Initial Investment						
	2020	2021	2022	2023	Total	
DCF	\$191,500.00	\$ 149,400,00	\$ 159,400,00	\$ 230,000.00	\$ 730.300	
Cost of Investment	\$50,000.00	\$0.00	\$0.00	\$0.00	\$ 50,000	
Net Present Value (NPV) - 2021					\$ 680,300	
			•			