



Masters in Accounting SAE FORMULA SHEET

Operational Cycle Management

Invested capital = Cash + Working capital requirement + Net fixed assets

Capital employed = Short-term debt + Long-term debt + Owners' equity

Working capital requirement (WCR)

[Operating assets] – [Operating liabilities]

[Accounts receivable + Inventories + Prepaid expenses] -[Accounts payable + Accrued expenses]

Inventory turnover = $\frac{\text{Cost of goods sold}}{\text{Ending inventories}}$

Average collection period = $\frac{\text{Accounts receivable}_{end}}{\text{Average daily sales}}$

Average payment period = $\frac{\text{Accounts payable}_{\text{end}}}{\text{Average daily purchases}}$

Considering: Annual Purchases = COGS + Final Inventories – Initial Inventories

Liquidity

$$Current ratio = \frac{Current assets}{Current liabilities}$$

Acid test or quick ratio = $\frac{Cash + Accounts receivable}{Current liabilities}$

Net cash-flow from operating activities = EAT + Depreciation expenses - Change in WCR

Master's in accounting

Sustainability, Accountability and Ethics

Profitability

- Return on sales (ROS) = EAT/sales
- **Return on assets (ROA)** = EAT/total assets
- Return on invested capital (ROIC_{BT}) = EBIT/IC
- Return on invested capital (ROICAT) = NOPAT/IC
- Return on equity (ROE) = EAT/owners' equity

Multiplying Models:

- Return on equity (ROE) = $ROIC_{BT}$ x Financial multiplier x Tax effect
- **ROIC**_{BT} = Operating margin x IC turnover = EBIT/Sales x Sales/IC
- Financial multiplier = Invested capital /owner's equity x EBT/EBIT
- Tax effect = EAT/EBT

Earnings per share (EPS) =
$$\frac{\text{Earnings after tax}}{\text{Number of shares outstanding}}$$

Price-to-earnings ratio
$$(P/E) = \frac{Share price}{Earnings per share}$$

$$Market-to-book ratio = \frac{Share price}{Book value per share}$$

Value creation and Self-sustainable growth (g*)

• EVA = NOPAT - WACC x IC or EVA = (ROICAT - WACC) x IC

• $g^* = Retention rate \times ROE$