

“Project Management Using Earned Value”  
Case Study Solution 4.1

4.1

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**Control  
Account  
Definiton  
Part 1**

MOR-DED Motor Scooter Control Account Matrix (Part 1) SOLUTION

Organizational Elements		MOR-DED MOTOR SCOOTER																	
		1.0 Vehicle																	
		1.1 Power Source & Transmission *					1.2 Frame Assembly *				1.3 Suspension *				1.4 Integration Assembly *				
		1.1.1 Engine					1.1.2 Power Trans		1.2.1 Frame	1.2.2 Seat	1.2.3 Fenders	1.2.4 Foot Pegs	1.3.1 Shock Absorbers	1.3.2 Wheels	1.3.3 Axles	1.3.4 Steering Assembly			
		1.1.1.1 Engine Block	1.1.1.2 Fuel-Air System	1.1.1.3 Ignition System	1.1.1.4 Lubrication System	1.1.1.5 Instrumentation	1.1.2.1 Clutch	1.1.2.2 Trans Assembly	1.2.1.1 Frame	1.2.2.1 Seat	1.2.3.1 Fenders	1.2.4.1 Foot Pegs	1.3.1.1 Shock Absorbers	1.3.2.1 Wheels	1.3.3.1 Axles	1.3.4.1 Steering Assembly	1.4.1 Integration Assembly		
P R E S I D E N T	Procurement Director *	Purchasing		X	X		X		X	X	X	X	X	X	X				
		Subcontracts				X		X									X		
	Controller	Finance																	
		Accounting																	
	Director Administration																		
	Legal																		
	Marketing Director																		
	Engineering Director *	Design Group	Electronics Design				X		X										
			Power Design Branch			X				X	X								
			Mechanical Design Branch		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Test & Evaluation																	
		Engineer Design Group	Drafting Branch																
	Computer Services																		
	Model Shop																		
	Director Manufacturing *	Production Control Group																	
Manufacturing Engineering Group																			
Tooling		X	X		X														
Shops		X	X		X		X	X	X	X	X	X	X	X	X				
Director Quality Assurance *	Quality Assurance Department	RAM Group																	
		Quality Engineering Group																	
	Quality Control Department																		
Prog. Management Department *	MOR-DED Project Manager																		

\* CUSTOMER REPORTING LEVEL

## MOR-DED Motor Scooter Control Account Matrix (Part 2) SOLUTION

Work Breakdown Structure Elements  Organizational Elements			MOR-DED MOTOR SCOOTER																			
			2.0 System Test & Evaluation *				3.0 Data *			6.0 System Project Mgt.												
			2.1 Dev Test																			
			2.1.1 Test Planning	2.1.2 Reliability Tests	2.1.3 Road Test	2.2 Test & Evaluation Support	3.1 Technical Manuals	3.2 Engineering Data	3.3 Management Data	4.0 Depot Test Set *	5.0 Initial Spares & Repairs *	6.1 Project * Management	6.2 Systems Management *	6.3 Quality Assurance *								
P R E S I D E N T	Procurement Director *	Purchasing																				
		Subcontracts				X					X											
	Controller	Finance																				
		Accounting																				
	Director Administration																					
	Legal																					
	Marketing Director																					
	Engineering Director *	Design Group	Electronics Design	X									X									
			Power Design Branch	X									X									
			Mechanical Design Branch																			
		Test & Evaluation			X	X	X	X			X											
		Engineer Design Group	Drafting Branch						X													
			Computer Services								X											
	Model Shop						X															
	Director Manufacturing *	Production Control Group																				
		Manufacturing Engineering Group																				
		Tooling																				
		Shops												X								
		Assembly																				
	Director Quality Assurance *	Quality Assurance Department	RAM Group		X	X										X			X			
Quality Engineering Group																			X			
Quality Control Department																						
Program Management Department *	MOR-DED Project Manager										X				X	X						

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