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SITE ROTATING EQUIPMENT OVERVIEW WORKSHOP FOR NOVA CHEMICALS

Notes: * refers to the Chapter of the book to be used for the Workshop,
Volume 3 of Forsthoffer's Machinery Handbook

** refers to the appropriate Tab in the supplementary Workshop
Manual

Session	Description	Chapter*	Tab**	Module
DAY 1				
1	WORKSHOP INTRODUCTION AND OVERVIEW <ul style="list-style-type: none">• INSTRUCTOR AND STUDENT INTRODUCTIONS• COURSE OBJECTIVES• OVERVIEW OF WORKSHOP OUTLINE		1	108.22
2	TYPES OF COMPRESSORS ON SITE <ul style="list-style-type: none">• TYPES• POSITIVE DISPLACEMENT• DYNAMIC (CENTRIFUGAL & AXIAL)	2		
3, 4	SPECIFIC COMPRESSOR TYPES <ul style="list-style-type: none">• PERFORMANCE DATA• PERFORMANCE CURVES• ASSEMBLY DRAWINGS		2	
5	OPERATION OF A COMPRESSOR IN A SYSTEM	4		
6	THE CONCEPT OF FLUID HEAD	5		
7	WHAT DETERMINES THE CURVE SHAPE	7		
8	INDIVIDUAL STAGE AND OVERALL PERFORMANCE	9		

Session	Description	Chapter*	Tab**	Module
DAY 2				
9	SURGE (STALL) AND STONEWALL	8		
10	THE EFFECT OF GAS DENSITY CHANGE & FOULING	10, 11		
11,12	CENTRIFUGAL COMPRESSOR CONTROL & PROTECTION	12, 13		
13,14	COMPRESSOR MECHANICAL DESIGN OVERVIEW	14		
15	CRITICAL SPEEDS AND ROTOR RESPONSE	19		
16	RADIAL BEARING DESIGN AND MONITORING	18		
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DAY 3				
17	THRUST BEARING DESIGN AND MONITORING	20		
18	LUBE SYSTEM OVERVIEW AND TYPES ON SITE		3	
19-21	COMPRESSOR SEAL SYSTEM OVERVIEW & TYPES ON SITE	21	4	
22,23	CENTRIFUGAL COMPRESSOR PERFORMANCE CONDITION MONITORING	23		
24	TYPES OF STEAM TURBINES ON SITE		5	313
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DAY 4				
25	STEAM TURBINE CONTROL		6	315
26,27	STEAM TURBINE PERFORMANCE		7	302
28,29	DRY GAS SEAL AND SYSTEM DESIGN AND OPERATION		8	715
30-32	DRY GAS SEAL SYSTEMS ON SITE		9	