

TABLE OF CONTENTS

About the Author	iii
Preface	v
Chapter Summaries	vii
Acknowledgements.....	xiii
1. INTRODUCTION & FRAME OF REFERENCE	1
1.1 A Brief History of Information Systems	2
1.2 Human Resource Management	10
1.3 It's ALL About The Data.....	12
1.4 And Then, Information	19
1.5 Human Resource Systems.....	21
1.6 Afterwords	22
1.7 Summary.....	22
2. HUMAN RESOURCES MANAGEMENT (HRM)	25
2.1 Human Resources and Human Resource Department.....	26
2.2 HR, The Foundation of A HRMS.....	29
2.3 What Does the HR Department Do?.....	31
2.3.1 The Organization Framework vs. the Workers (People)	31
2.3.2 Organization Design.....	32
2.3.2.1 Competencies	34
2.3.2.2 Job Families	36
2.3.2.3 Position Management	42
2.3.2.4 Organization Units	42
2.3.2.5 Organization Charts	42
2.4 People.....	46
2.4.1 Managing People Within Organization Structure	47
2.4.2 Security Role	48

Guide to Managing Information Systems

2.5	Policies and Procedures	49
2.6	HR & Technology.....	54
2.7	Audit Functionality (also see Audit Trails, Chapter 3)	54
2.8	Summary	57
2.9	Questions.....	57
3.	TECHNOLOGY	59
3.1	Data & Data Integrity	61
3.2	Getting New Software	62
3.2.1	Build	62
3.2.2	Acquiring Commercially Available Software (Buy/Lease).....	64
3.2.3	Merge/Adapt	64
3.2.4	Outsource	65
3.3	Strategic System Options.....	67
3.3.1	Enterprise Resource Planning (ERP)	67
3.3.2	Single-Function Systems	72
3.3.3	Human Resource Management Systems (HRMS)	74
3.4	Operating Decisions	76
3.4.1	Single vs. Multi-Tenancy	76
3.4.2	Client Server.....	77
3.4.3	Software As A Service (SaaS)	79
3.4.4	The Cloud (also see Chapter 2).....	80
3.5	Issues of Note	84
3.5.1	Analytics, Metrics, and Business Intelligence	84
3.5.2	Artificial Intelligence (AI)	96
3.5.3	Audit Trails	104
3.5.4	Big Data	105
3.5.5	Biometrics	105
3.5.6	Bitcoin	106
3.5.7	Blockchain.....	107
3.5.8	Bring Your Own Devices (BYOD).....	110

Table of Contents

3.5.9	Chatbots	111
3.5.10	Electronic Signature	111
3.5.11	Gamification	112
3.5.12	Microchips & RFID	113
3.5.13	Security	114
3.5.14	Self-Service	118
3.5.15	Virtual Reality	120
3.5.16	Workflow	121
3.6	Social Media & Communications	123
3.6.1	Social Media	124
3.6.2	Communication Options	127
3.6.3	Call/Contact Centres	127
3.6.4	Interactive Voice Response (IVR)	129
3.7	Summary	131
3.8	Questions	131
4.	HUMAN RESOURCE MANAGEMENT SYSTEMS	133
4.1	What Is a Human Resource Management System (HRMS)?	133
4.2	Technical and Vendor Options	134
4.2.1	What Type of Systems Exist?	134
4.3	HRMS vs. HRIS	135
4.4	Organization Size - How Big is “Big”?	136
4.5	Return on Investment (ROI)	138
4.6	Planning a New HRMS	141
4.6.1	The Process	141
4.6.2	The Plan	143
4.6.3	HRM Strategy First; Then Tools	146
4.6.3.1	Strategic Alignment	147
4.6.3.2	Visioning The Future	149
4.6.4	Assessing Current Situation	150
4.6.4.1	Processes	154

Guide to Managing Information Systems

4.6.4.2	Business Process Re-Engineering	156
4.6.5	Analyzing Capabilities	159
4.6.6	Analyzing Gaps	161
4.6.7	Developing Strategies	162
4.6.8	Defining Objectives	163
4.6.9	Measuring Progress	164
4.7	The Budget	167
4.8	Business Requirements and Business Case	169
4.9	Project Structure	172
4.9.1	Project Champion(s)	173
4.9.2	Steering Committee	173
4.9.3	Internal Project Manager	174
4.9.4	Project Team	176
4.9.5	Consultants	178
4.10	Communications and Change Management	181
4.11	Summary	185
4.12	Questions	186
5.	TALENT MANAGEMENT	187
5.1	Staffing	189
5.1.1	Identify the Gap	190
5.1.2	Competencies	191
5.1.3	Recruit	191
5.1.4	Manage Applicants	193
5.1.5	Succession Planning	197
5.1.6	Select	201
5.1.6.1	Screen and Shortlist	202
5.1.6.2	Interview	205
5.1.7	Offer	207
5.1.8	Onboard	208
5.2	Manage Worker Movement and Records	209

Table of Contents

5.2.1	Probation (see also Chapter 6 Total Rewards).....	210
5.2.2	“Others” in Your System	211
5.3	Retain.....	212
5.3.1	Engagement	213
5.4	Develop/Train/Learn	217
5.4.1	Develop	218
5.4.2	Learning	219
5.4.3	Training.....	219
5.5	Health & Safety.....	226
5.5.1	Disability, Accessibility, Accommodation	229
5.5.2	Employee Assistance Programs	229
5.5.3	Wellness.....	231
5.6	Labour & Employee Relations.....	232
5.6.1	Discipline.....	232
5.6.2	Union Membership.....	233
5.6.3	Collective Agreement Management.....	234
5.6.4	Grievance Management	235
5.6.5	Incidents & Investigations Management	235
5.6.6	Event Management.....	236
5.7	Termination	236
5.8	Asset Management	237
5.9	Summary.....	238
5.10	Questions.....	238
6.	TOTAL REWARDS	241
6.1	Compensation	244
6.1.1	Base Pay	244
6.1.2	Variable Pay.....	246
6.1.3	Cost of Living (COL).....	246
6.1.4	Performance Pay	250
6.1.5	Commission	251

Guide to Managing Information Systems

6.1.6	Bonuses	254
6.2	Benefits	254
6.3	Retirement and Pension.....	257
6.4	Executive Remuneration	258
6.5	Work-Life	260
6.5.1	Health and Wellness Programs	260
6.5.2	Volunteer Activities.....	261
6.5.3	Childcare	262
6.5.4	Elder Care.....	263
6.5.5	Adoption Assistance.....	264
6.5.6	Military Service	265
6.6	Performance and Recognition	265
6.6.1	Communication	268
6.6.2	Performance Expectation.....	270
6.6.3	Performance Assessment	270
6.6.4	Behaviour, Attitude and Engagement	272
6.7	Payroll Management	276
6.7.1	Bulk Change or Group Rate Changes.....	279
6.7.2	Retroactive Adjustments	279
6.8	Rewards Information Display	279
6.9	Summary.....	280
6.10	Questions.....	281
7.	TIME MANAGEMENT.....	283
7.1	Time Management Software.....	283
7.2	The Relationship of Organization to People/Workers	284
7.3	The Models of Time Management	286
7.4	Planning.....	288
7.5	Labour Forecasting	288
7.6	Scheduling.....	289
7.7	Absence Reporting and Replacing Workers.....	291

Table of Contents

7.8	Time Capture	297
7.8.1	Exception Time Capture	297
7.8.2	Positive Time Capture	297
7.9	Labour Distribution	302
7.10	Summary	303
7.11	Questions	303
8.	SOFTWARE REQUIREMENTS, SELECTION AND IMPLEMENTATION	305
8.1	Define New System Requirements (Needs and Wants)	306
8.1.1	Recommended Process	307
8.1.2	Ranking/Weighting	308
8.2	A Detailed Process	309
8.2.1	Detailed Requirements List	311
8.3	Create a Go-To-Market Document (RFP/RFI)	314
8.3.1	Document Options	315
8.4	Select Vendors/Software	319
8.4.1	Prepare Vendor/Software list	323
8.4.2	Advise Vendors it is Coming	324
8.5	Selection	325
8.5.1	Send Go-To-Market Document to Selected Vendors	325
8.5.2	Receive, Vendor Responses	326
8.5.3	Determine Short-list of Vendor to Demo	327
8.5.4	Software Demonstrations	328
8.5.4.1	Number of Demos	330
8.5.4.2	The Format	330
8.5.4.3	The Attendees	331
8.5.4.4	Prepare Scripts/Scenarios	332
8.5.4.5	Schedule Demos (& Participants)	333
8.5.4.6	Hold Software Demonstrations	336
8.5.4.7	Assess Each Demo	336

Guide to Managing Information Systems

8.5.4.8	Secondary Assessment	338
8.6	Negotiate Draft Contract	342
8.6.1	Final Recommendation and Sign Contract.....	343
8.7	Plan Implementation	344
8.7.1	One More Word About Space.....	344
8.8	Communications	345
8.9	Summary	345
8.10	Questions.....	346
9.	RISK MANAGEMENT	349
9.1	Legislative Compliance	349
9.2	Labour Standards	350
9.3	Human Rights	351
9.4	Employment Equity	351
9.5	Accessibility	353
9.6	Training and Development	354
9.7	Wellness, Health and Safety (& WCB)	356
9.8	Attendance	359
9.9	Secondary But Vital Legislation	361
9.10	Privacy	366
9.10.1	Personal Information	369
9.10.2	Multiple Data Bases & Big Data.....	369
9.11	Summary	370
9.12	Questions.....	370
10.	IMPLEMENT, GO-LIVE, & BEYOND.....	373
10.1	Define Your Goals	374
10.1.1	Plan, Plan, and, oh yeah, PLAN.....	375
10.1.1.1	The Project Manager	375
10.1.1.2	Project Tools.....	377
10.1.1.3	The Implementation Project Plan	378
10.1.1.4	The Project Budget	382

Table of Contents

10.2 Manage the Plan	383
10.3 Issues To Be Aware Of	384
10.3.1 The Core of Implementation	384
10.3.1.1 Technical	384
10.3.1.2 Information Presentation (Reports +).....	385
10.3.1.3 Change Control	388
10.3.1.4 Functional Issues	388
10.3.1.5 Business Process Re-Engineering.....	389
10.3.1.6 Service Delivery Models.....	390
10.3.1.7 Shared Service Centres	392
10.3.1.8 Global Models	393
10.3.1.9 Under-Resourcing	395
10.3.1.10 Over-reliance On The Consultants	395
10.3.1.11 Data Conversion	396
10.3.1.12 Interfaces	397
10.3.1.13 Customization.....	398
10.3.1.14 Training.....	398
10.3.1.15 Testing	399
10.3.1.16 Acceptance & Sign-Off.....	401
10.4 The Flow of Implementation	402
10.5 Go-Live	402
10.6 Use & Refine	404
10.6.1 HRMS Staff.....	406
10.6.2 Users and Security	406
10.6.3 Reports and Report Management.....	407
10.6.4 Audit Trail	409
10.6.5 Help Desk.....	409
10.6.6 Problems & Change Requests	409
10.6.7 Updates and Bugs.....	411
10.7 Summary.....	411
10.8 Questions.....	412
Afterword #1 – Interview with Stan Swete, Workday.....	413

Guide to Managing Information Systems

Afterword #2 – HRMS Implementation Disasters – Jacques
Guénette, DLGL 437
Index 451