Rewards for Performance APS Tutorial March 2003

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Rewards for Performance: Outline

What are Rewards?

- Academic Setting
- Industrial Setting

Measuring Organizational Performance

- Performance Excellence (Baldridge Criteria)
- Balanced Scorecard

Measuring Individual Performance

- Linkage to Balanced Scorecard
- Performance Planning
- Performance = Results + Behaviors
- Performance Management

Rewards for Performance

Differential Investment





About your instructor

- I am NOT a bureaucrat !!! (at least not yet)
- I do NOT have an MBA !!!
- Key scientific interests:
 - Spectroscopic Ellipsometry (IR, VIS, UV)
 - Silicon-Germanium-Carbon Alloys
 - Semiconductors and Oxides for Microelectronics





Highlights of FIAP program

- Tutorial: Heterostructures Everywhere (Sunday, AM)
 Kromer, Stormer, Capasso, van de Walle
- CSWP/FIAP networking breakfast (Monday, 7 AM)
 <u>Padmasree Warrior</u>, Chief Technology Officer, Motorola, Inc.
- B3: Applications of Semiconductor Heterojunctions (Monday, 11:15)
 <u>Karl Johnson</u>, <u>Motorola</u>, <u>Inc</u>
- D4: Nanoscale Science and Technology: Opportunities and Challenges (Monday, 2:30) Stormer, Hersam, Buhrman, Colvin, Siegel, Westervelt
- G3: The Semiconductor Industry: Frontiers in Physics and Measurements (Tuesday, 8:00)
 Bowling (TI), Zeitzoff (ISMT), Ho (UT), Diebold (ISMT), Matyi (NIST)
- H1: Microelectronics Modeling and Simulation (Tuesday, 11:15) Pantelides, Musgrave, Fischetti, Lundstrom, Vogl
- K8: Focus Session: Measurements and Instrumentation for the Semiconductor Industry
- N8: Superconducting/Semiconducting Devices and Applications
- P8/S6: Focus Sessions: Front-End Materials and Processes for Scaled Silicon CMOS
- S8/V8/W8: Focus Sessions: Understanding Molecular and Nanoelectronics
- V7: Nitride Semiconductors and their Applications
- W2: Physics Careers in the Semiconductor Industry
- X2: Nanostructured Interfaces (Bloechl, Bonnell, Nguyen, Uberuaga, Browning)
- Y8: Focus Session: Optical Telecommunications (Y8.001, Cook)
- Z8: Focus Session: Applications of Optical Spectroscopy (<u>Ran Liu</u>)





About your instructor (biography)

- 1981-1987: Undergraduate student in math and physics (Regensburg/Stuttgart, Germany)
- 1984/85: Fulbright Scholarship, Arizona State University, Tempe, AZ
- 1987-1991: Graduate student, MPI Stuttgart (with Manuel Cardona)
- 1991-1992: IBM World Trade Postdoc, Yorktown Heights, NY
- 1992-1997: Assistant Professor of Physics, Iowa State University,
 Ames, IA, and Ames Laboratory (US-DOE), Condensed Matter Physics
- 1997-2003: Process and Materials Characterization Laboratory, Advanced Products R&D Labs, Motorola, Inc., Mesa/Tempe, AZ first individual contributor, then Section Manager
- Almost 100 publications, 3 books, 70 conference talks/posters
- Vice Chair, Forum on Industrial and Applied Physics (FIAP)
- Organizer for numerous conferences (APS, ICPS, ULSI Metrology, MRS)





"At Company X, there were two kinds of people, managers and individual contributors"

Individual contributor:

- Does only technical work
- Does not have support staff (no technicians, secretaries, students, etc)

Manager:

- Does not do any technical work (don't do anything ?)
- Supports individual contributors by handling administrative details
- Aligns goals of individual contributors with goals of the organization!

Other companies may not be quite as strict (i.e., there may be technicians), but don't expect to have people that do the "dirty work" for you.





The Four Stages of Career Growth (Academic Environment)

Stage 1: Depending on Others (graduate student)

- Willingly accepts supervision
- Demonstrates success on a portion of larger project or task
- Masters basic and routine tasks
- Shows "directed" creativity and initiative
- Performs well under time and budget pressure
- Learns how "we" do things

Stage 2: Contributing Independently (postdoc)

- Assumes responsibility for definable projects
- Relies less on supervision; works independently and produces significant results
- Increases in technical expertise and ability
- Develops credibility and a reputation
- Builds a strong internal network of relationships

Stage 3: Contributing through Others (professor)

- Increases in technical breadth
- Develops broad business perspective
- Stimulates others through ideas and knowledge
- Involved as a manager, mentor, or idea leader in developing others
- Represents the organization effectively to clients and external groups
- Builds a strong internal and external network
- Stage 4: Organizational Leadership (department chair, dean, funding agent)

Source: http://www.btweb.com/FourStagesOfCareerGrowth.asp





The Four Stages of Career Growth (Industrial Environment)

- Stage 1: Depending on Others (junior engineer, technician)
 - Willingly accepts supervision
 - Demonstrates success on a portion of larger project or task
 - Masters basic and routine tasks
 - Shows "directed" creativity and initiative
 - Performs well under time and budget pressure
 - Learns how "we" do things
- Stage 2: Contributing Independently (individual contributor, senior engineer)
 - Assumes responsibility for definable projects
 - Relies less on supervision; works independently and produces significant results
 - Increases in technical expertise and ability
 - Develops credibility and a reputation
 - Builds a strong internal network of relationships
- Stage 3: Contributing through Others (section manager, project leader)
 - Increases in technical breadth
 - Develops broad business perspective
 - Stimulates others through ideas and knowledge
 - Involved as a manager, mentor, or idea leader in developing others
 - Represents the organization effectively to clients and external groups
 - Builds a strong internal and external network
- Stage 4: Organizational Leadership (department manager, director, VP)

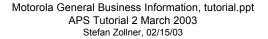
Source: http://www.btweb.com/FourStagesOfCareerGrowth.asp





What are Rewards?









Why Rewards? How should they be designed?

- Rewards have a positive impact on results and behaviors:
 - Contingent on achieving desired performance levels
 - Meaningful and valuable to the individual
 - Based on objective and attainable goals
 - Open to all, not based on a competitive struggle among employees
 - Balanced between conditions in the workplace (economy?) and fulfillment of individual needs
- Reward systems need to focus efforts on serving the customer.
- Reward systems need to enhance collaboration within the workplace.
- SPICS: Specific, personalized, immediate, contingent, sincere

Source: http://www.p-management.com/reward.html





Rewards in Academic Setting I

Starting Out as Assistant Professor:

- Salary: Base Salary (9+? Months). Secure position!
- Benefits: Health, Dental, Life Insurance, Dependent Care Account
- Retirement: 403(b) plan (institutional match?)
- Relocation: Usually domestic (what are the limits?)
- Paid vacation or holidays?
- Tuition benefits for self or dependents/family
- use of facilities (recreation center, cafeteria)
- Work permit (J1, H1) or permanent residency (for non-US citizens)
- Startup package:
 - Capital equipment funds (When? How much?)
 - Supplies and Computers (When? How much?)
 - Shared Equipment (With whom? Any strings attached?)
 - Lab/Office space (who pays for remodeling and furniture?)
 - Start-up teaching load: How many classes? What subjects?
 - Students or postdocs: How many? How long?
 - Summer salary: How many months? How long?
- Get commitments in writing, ask for written policies!





Rewards in Academic Setting II

Getting Tenure and Beyond:

- Grants, Students/Postdocs, Summer Salary
- Publications (including Books, Chapters, Patents)
- Conference Travel
- Reviewing the work of others
 (journals, conferences, mail and panel review of proposals)
- Recognition (invited talks, conference organizer, journal editor)
- Collaboration with others (on and off campus)
- Getting tenure, Promotions
- Pay raises
- Sabbatical
- Service and Fellowship in Professional Societies, Prizes and Awards
- Starting a company, Consulting (institutional policy?)
- Teaching advanced courses
- Administration (lab director, department head, dean, etc)
- Understand the process, ask for written policies!





Rewards in Industrial Setting

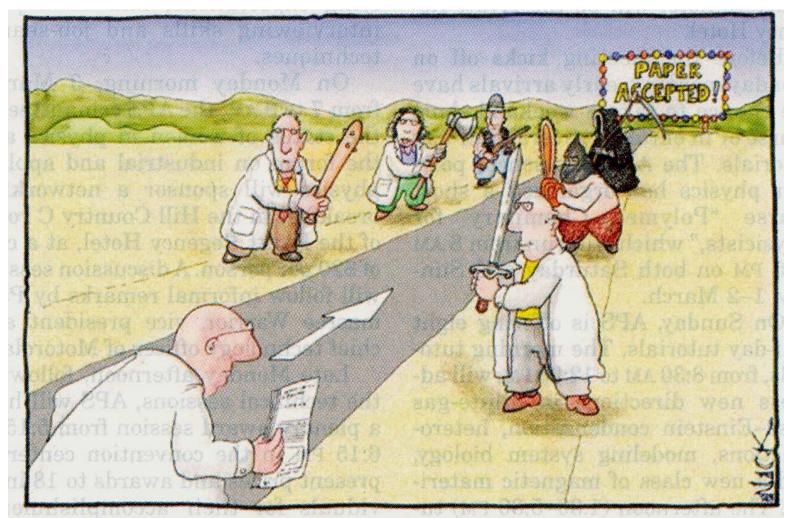
- Base pay (usually benchmarked within industry sector), at-risk pay for managers
- Incentive pay (bonus), stock options, discounted stock purchases
- Pay raises, promotions (technical ladder)
- 401(k) plan (company match?), pension plan (large companies)
- Medical (vision? drugs?), dental, disability, life insurance; HRA, DCA
- Vacation, holidays, sabbatical (rare), leave of absence (FMLA)
- Awards and Recognition program (celebrations, banquets, social events)
- Patent or publication bonus
- Supervising, directing, and managing the work of others
- Training (for current or future job), learning new skills
- Conference travel, publications, reviewing activities, university visits
- Tuition Reimbursement (linkage to present job needed? Approval?)
- Fitness centers, sports teams, cafeteria, employee assistance program
- Cube or office space, storage space, computer, lab and equipment

Source: http://www.motorola.com, McKinsey Study. Items in red typical for high-performing companies.

Industrial rewards are at first difficult to understand based on HR policies (need manager's advice and support), change often based on business conditions.







Most scientists regarded the new streamlined peer-review process as 'quite an improvement.'

February 2003 F

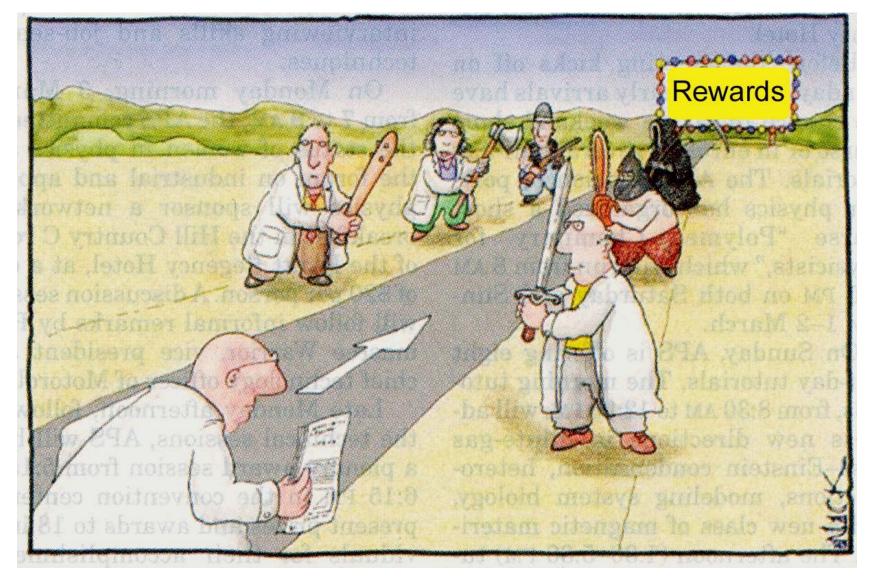
Physics Today

Motorola General Business Information, tutorial.ppt APS Tutorial 2 March 2003 Stefan Zollner, 02/15/03









Our new and improved performance management system.

Motorola General Business Information, tutorial.ppt APS Tutorial 2 March 2003 Stefan Zollner, 02/15/03





Rewards for Performance

- Rewards have a positive impact on results and behavior:
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Focus on the Customer: Performance Excellence

- "Basic research is like shooting an arrow into the air and, where it lands, paint a target. Historically, university physics programs have done an outstanding job of teaching physicists to shoot, but not necessarily to aim."
- Federal funding agencies (like NSF) promote this culture of academic excellence.
- Industry is full of targets: "Business plans, product performance specifications, project cost and timing goals, etc."
- Industrial physicists need to "focus their efforts and creative skills to support known needs and existing commercialization plans. Directing arrows towards targets generally requires much greater breadth, persistence, and teamwork than shooting a new arrow in whatever direction one chooses."
- Sometimes, one needs to advance a certain subfield of physics to meet predefined goals (innovation), sometimes one needs a detailed understanding of a field developed many years ago (reuse).
- Performance Excellence is a formal process that describes how to paint, aim, and hit targets while making money in the process.

Source: Ken Hass, Educating Physics for Industry, Physics Today, December 2002.





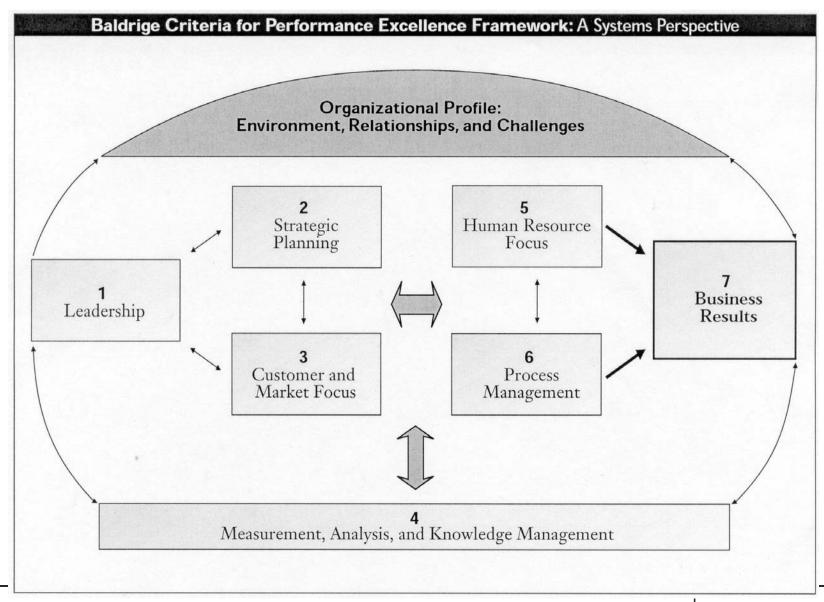
NIST Baldridge Award Criteria for Performance Excellence

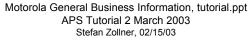
- What are your organization's main products and services?
- How are they delivered to customers?
- What is your organizations culture (purpose, vision, mission, values)?
- What is your employee profile (education levels, workforce, diversity, bargaining units, use of contract employees, safety requirements)?
- What are your major technologies, equipment, and facilities?
- What is the regulatory environment under which your organization operates (occupational health and safety, accreditation requirements, environmental, financial, and product regulations)?
- What are your key customer groups and market segments?
- What are the key requirements for your products and services? How do these requirements differ among customer groups and market segments?
- What are your most important types of suppliers and dealers? Supply chain requirements?
- What are your key supplier and customer partnering relationships and communication mechanisms?
- What is your competitive position? What is your relative size and growth in your industry?
- How many competitors and what types of competitors do you have?
- What are the principal factors that determine your success relative to your competitors?
- What changes are taking place that affect your competitive situation?
- What are your key strategic challenges (operational, human resources, business, and global challenges)?





NIST Baldridge Criteria









Performance Excellence

- Thinking about the answers to these questions (NIST Baldridge survey)
 makes you understand the purpose of your job.
- Why do we care?
- Understanding what our companies are supposed to do (make money) is a requirement for planning individual goals.
- Personal goals are closely aligned with goals of the organization.
- My main responsibility as a manager is to align the skills and interests of the individual contributors with the goals of the organization.





The Balanced Scorecard

- The Balanced Scorecard is a tool that allows an organization to define goals and measure performance.
- Balanced Scorecard has four parts:
 - Vision and Mission
 - Initiatives (Projects): Tactical and Strategic
 - Business Processes: How do we achieve goals?
 - Business Results: How do we measure success?
- Vision and mission are derived from the larger organization.
- Clear ownership defined for all projects, processes, and results.
- Key considerations:
 - Financial Success
 - Customer Focus
 - Continuous Improvement of the organization.

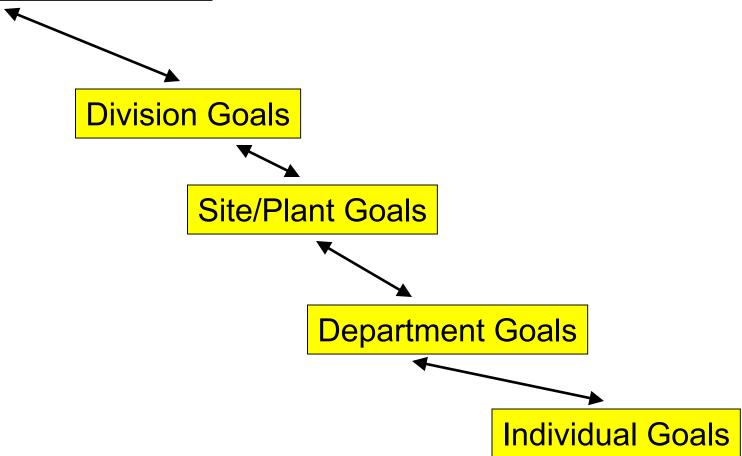
Reference: R.S. Kaplan and D.P. Norton, *The Balanced Scorecard*, Harvard Business School Press, 1996.





Alignment of goals and objectives

Company Strategic Goals (Vision and Mission)







Rewards for Performance

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Performance = Results + Behaviors

Results

- Describe the employee's contributions to the goals of the organization.
- Based on SMART goals
- Behaviors (also called competencies)
 - Describe HOW the results were obtained

If I meet my goals, why does it matter if I'm in a good mood or not?

Baldridge winner states:

Our leaders are held accountable for both results and behaviors and we are driving this mental framework down through the rest of our population.





SMART Goals

Specific and clear:

What to accomplish? Identify requirements and constrains. Who is involved? Where? When? With whom and for whom? Join a health club and work out three days a week for an hour.

Measurable:

Concrete criteria for measuring progress toward attainment of goals.

Some goals or standards can be measured through **qualitative** means.

The reader can tell that the results sought can be measured.

Numbers or specific words to indicate success. Describe result, not activity.

Achievable:

Is it reasonable to expect meeting this goal? Do I have the skills and resources needed?

• Relevant and result-focused

What are we hoping to gain? Why am I doing this? What do we accomplish? Linkage to the goals of the organization (balanced scorecard)

Time-Bound:

Milestones with target dates (requires project management).

Example:

We will develop an InGaP-based heterojunction bipolar transistor with the following electrical characteristics (*insert here*), ready for customer sampling by (*insert date*).

Obtain feedback on performance from internal and external work partners (Surveys).

Source: M. Brounstein, Coaching and Mentoring for Dummies, IDG Books, Foster City, CA, 2000.





Leadership Behaviors (Competencies)

- Decisiveness: Takes responsibility for actions and decisions required
- Conviction: Demonstrates perseverance, displaying confidence
- Knowledge: Effectively uses the power that comes from understanding
- Discipline: Consistently executes as promised
- Approachability: Has integrity, and easily adapts to the styles of others
- Clarity: Communicates simply, clearly, and memorably
- Direction: Has, and expresses, clear goals and vision
- Humility: The ego is under control
- Competence: Demonstrates skill
- Personal Energy (age discrimination?)
- Charisma: Likeable (measurable?)

Not all behaviors (competencies) contribute to the success of an organization. Behaviors are chosen and defined carefully to be meaningful and measurable.

Source: http://www.eaglesflight.com/leadership/10 qualities.html.

See also Ken Hass, *Educating Physics for Industry*, Physics Today, December 2002.

Also: Pennsylvania State System of Higher Education.





5 E's of success (adopted from General Electric)

Envision:

Creates the future, imagines what's next.

Thinks in terms of the big picture and how the pieces fit together.

Comes up with the vision, strategies, and viable plans that turn a dream into reality.

Questions assumptions and challenges conventional thinking.

Generates breakthrough ideas that improve the way the organization operates.

Energize:

Creates energy among employees to work on projects.

Excites coworkers around activities, projects, and events.

Creates an atmosphere where everyone has passion to excel and opportunity to contribute. Sustains a positive attitude in the face of difficult challenges or adversity.

Edge:

Makes tough decisions when needed to achieve goals. Takes responsibility for problems. Convinces people to collaborate. Challenges people to do their best.

Holds people accountable, takes action when their performance does not meet expectations.

Execute:

Completes projects on time and on budget. Meets commitments and keeps promises. Follows tasks/projects through to successful completion. Communicates about projects to ensure completion. Has strong problem-solving skills.

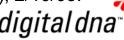
Ethics:

Professional integrity while working on projects. Is honest at all times. Builds personal credibility. Treats all people with respect and dignity (diversity)

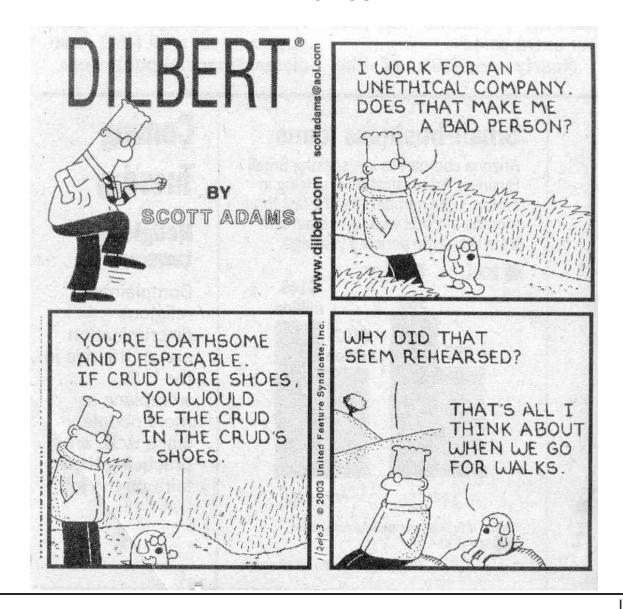
Source: Chris Galvin Interview, Business Week Online, 17 April 2000.

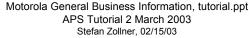
See also http://www.public.asu.edu/~tbaxley/DistrictPresident/AppendixC.htm (KKΨ/TBΣ), 2/10/03.





Ethics









Ethics as a Competitive Advantage

The APS and many companies have an "Ethics Statement" or Code of Conduct.

APS Guidelines for Professional Conduct:

General statement with some specific considerations.

Research Results:

Keeping and maintaining adequate records. Admit errors!

Sharing with collaborators (except to preserve intellectual property).

Fabrication, selective reporting, or theft of data (plagiarism) not tolerated.

Authorship:

Significant contributors (and only those) should be coauthors. Other contributions and financial support should be acknowledged. All coauthors have some responsibility for the paper.

Peer review:

Fair, objective, and timely peer review is an obligation for every physicist!

Conflicts of interest:

Professional or personal relationships, financial conflicts.

Applies mostly to reviewing. Disclose! Avoid when possible.

Discontinue activity (review etc) when conflict not avoidable.





Business code of conduct of large company

Uncompromising integrity:

Honesty, fairness, "doing the right thing" without compromise, even when circumstances make it difficult.

Constant respect for people:

Treat others with dignity, as we would like to be treated ourselves. This applies to every individual we interact with around the world.

Responsibility and Accountability:

Each employee has personal responsibility to know the code of conduct and to abide by it and the laws about our work. Report concerns to management or Ethics Office.

- Managers are expected to lead based on our code of conduct. Managers must look for indications that unethical or illegal activity has occurred.
- Product quality and safety, sales and marketing, customer information, government customers, governments (import/export), competitors (antitrust, anticorruption laws).
- Responsibility to business partners and the public community (environment, volunteering)
- Purchasing/travel practices, communication with external audiences

Responsibility to shareholders:

Protect company assets (guard from theft or misuse)

Protect proprietary information (trade secrets)

Inside information and securities trading

Accuracy of company records

Record-keeping and retention of records.

- No lobbying, political contribution on behalf of the company.
- Avoid conflicts of interest (outside employment, family members, competing with company).





Measuring Behavior 1: Communication as an Example

• Less than expected:

Verbal and/or written communication does not achieve an understanding. Style of relating to others is inappropriate and creates problems with peers, employees, and customers.

Does not consistently treat others with dignity and respect.

Meets expectations:

Consistently maintains good working relationships with peers, supervisors, customers, stake holders, etc.

Always treats others with dignity and respect.

Willingly shares information that will enhance the work effectiveness of others.

Promotes positive public relations and public image of organization.

Strong written and verbal communication.

• Exceeds expectations:

Meets all criteria under "meets expectations". PLUS Shows talent in such areas as persuasion and conflict resolution.

Behaviors are chosen and defined carefully to be meaningful and measurable.

Source: Nebraska Health and Human Services System (web site).





Measuring Behavior 2: Demonstrates Flexibility and Adaptability (Cooperation)

Less than expected:

Resistant to implementation of new approaches. Insufficient sensitivity to and does not show concern about impact of change on peers, employees, and customers. Indifferent to the effects of his/her behavior on others.

Meets expectations:

Takes proactive role in managing change. Sensitive to and shows concern about impact of change on others. Encourages trust and cooperation. Demonstrates flexibility in accepting additional responsibilities.

Exceeds expectations:

Meets all criteria under "meets expectations". PLUS

Viewed as a change agent. Personally works with others to implement change. Demonstrates flexibility in accepting additional responsibilities while maintaining current workload.

Measuring Behavior 3: Fosters Diversity (Collaboration)

Less than expected:

Does not always recognize value of positive relationships with others. Does not value different opinions, experiences, backgrounds and/or cultures. Does not encourage diversity in composition of work teams. Withholds information and assistance.

Meets expectations:

Demonstrates a willingness and ability to work with others as team players in the pursuit of common goals. Encourages shared objectives with other workgroups. Values diverse opinions, experiences, backgrounds, and cultural styles. Encourages an environment of openness, trust and acceptance. Builds a participative environment.

Exceeds expectations:

Meets all criteria under "meets expectations". PLUS

Assures appropriate linkages between own work plans and organization goals. Facilitates a positive environment. Maintains a high level of morale.





Measuring Behavior 4: Maintains Focus on Customer Service

Less than expected:

Not fully attuned to importance of customer. Does not appropriately participate in identifying customers' needs.

Meets expectations:

Values customers. Consistently meets customers' needs. Takes appropriate action to solve customer concerns effectively and efficiently.

• Exceeds expectations:

Meets all criteria under "meets expectations". PLUS Assists others in developing the skills to provide quality customer service.

Measuring Behavior 5: Job Knowledge and Productivity (Confidence)

Less than expected:

Focuses on responsibilities of others more often than own responsibilities. Sometimes fails to follow through on commitments. Demonstrates little or no initiative to acquire skills and knowledge necessary to meet requirements of position. Is not always completely honest or forthright. Work is not completed efficiently or of consistent high quality.

Meets expectations:

Takes responsibility for own actions and actions of workgroups. Works to solve problems. Shows initiative to increase job knowledge. Demonstrates honesty, integrity, and fairness. Effectively manages and maximizes talent of all employees; maintains a high morale within organization. Work output consistently meets quality and quantity standards for the position. Actively incorporates quality approaches to work.

Exceeds expectations:

Meets all criteria under "meets expectations". PLUS

Demonstrates critically important knowledge that positively impacts results. Establishes a system of continuous improvement focused on improving work performance. Demonstrates very high levels of honesty, integrity, and fairness.





Behaviors depend on Career Stage

- Stage 1: Depending on Others (junior engineer, technician)
 - Willingly accepts supervision and direction
 - Demonstrates success and competence on a portion of larger project or task
 - Masters detailed and routine tasks
 - Shows "directed" creativity and initiative
 - Performs well under time and budget pressure
 - Learns how "we" do things
- Stage 2: Contributing Independently (individual contributor, senior engineer)
 - Assumes responsibility for a definable portion of a project, area, or clients
 - Relies less on supervision; works independently and produces significant results
 - Increases in technical expertise and ability; develops his/her own resources to solving problems.
 - Demonstrates technical competence, credibility and a reputation for good work
 - Builds a strong internal network of relationships (collegial relations with coworkers)
- Stage 3: Contributing through Others (section manager, project leader)
 - Demonstrates a breadth of business AND technical expertise, perspective, and insight
 - Stimulates others through ideas and knowledge
 - Involved as a manager, mentor, or idea leader in developing and influencing others
 - Represents the organization effectively to clients and external groups (other work groups, senior management, industry associations, universities, government, etc)
 - Builds a strong internal and external network
- Stage 4: Organizational Leadership (department manager, director, VP)

Source: http://www.btweb.com/FourStagesOfCareerGrowth.asp





Behaviors can be overused

Personal Energy:

Creates stress for coworkers without clear purpose. Workaholic, does not take time for vacation or family.

Building Relationships:

Spends too much time and effort to build relationships with too many individuals and organizations that are not part of the work team.

Knowledge:

Is unable to communicate issues in simple terms to cross-disciplinary team.

Diversity:

Manages diversity of population based on quota, not on business needs. Overly concerned with personal differences, detrimental to team building.

Communication:

Sends five emails per day to the whole team about the status of the project. Unable to summarize, too much detail in reports.

Execution:

Plans every detail and never gets the work done.





Rewards for Strong Performance (Top 20%)

- <u>Financial Incentives</u> (already discussed):
 - Incentive pay, Stock Options, Pay Raises
 - Promotion in current job (technical ladder)
- Development Opportunities:
 - Training
 - Move into management
 - Fast track for top performers
- Non-financial incentives:
 - Make work content fun and stimulating
 - More work (more challenging goals)
 - New Toys (new state-of-the art instrument)
 - Autonomy: give employees autonomy and flexibility
 (Food company: 100 US zone managers with CEO-like jobs, 50M\$ each)

Promotions are becoming rare (Downsizing, Flattening), other rewards more important.

Source: McKinsey Study of High-Performing Companies Kathy Buckner, Developing and Maintaining a Competitive Career, B.T. Novations.





Consequences for poor performers (bottom 5-10%)

Successful companies:

- Fire underperformers (2-3 years, 5-10% per year): Up or Out
- Peer pressure (underperformers are forced to self-select out)
- Many companies enforce distributions (forced ranking)
- Critics: Subjective, unfair, discriminatory, discourages collaboration

Underperforming companies:

- Second chance for underperformers
 (demotion or downgrade, lateral move, department transfer)
- Counseling or Coaching in place (minimize employee turnover at all costs)

Coaching:

- Criticism of individual's performance does not usually result in improvement.
- Better: Reinforcing individual's strength, encourage to use those more.

Source: McKinsey Study of High-Performing Companies, Performance Appraisal (Dick Grote, AMACOM Books)





Summary

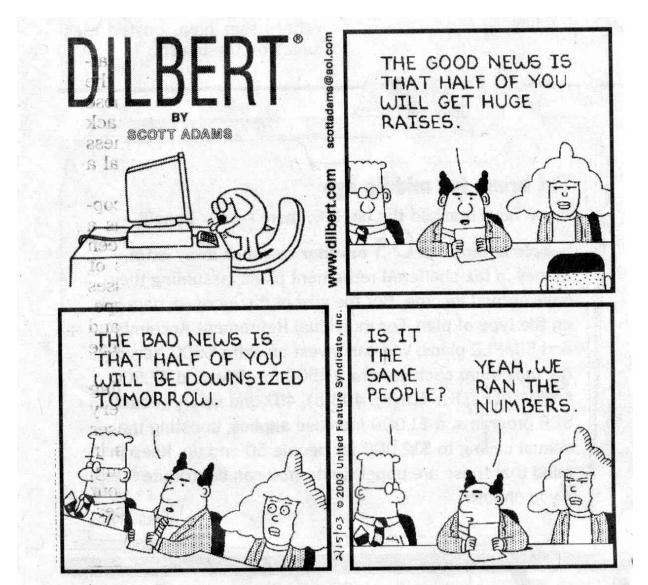
- Performance Excellence
 - Planning and measuring goals of the organization
 - Balanced Scorecard
- Personal Commitment
 - Planning goals for individuals based on balanced scorecard
 - Performance consists of results (meeting goals) and behaviors
- Relative Performance Assessment (RPA)
 - Evaluate employees on their performance to goals and behaviors as compared to others in similar jobs and grade levels.
- Differential Investment
 - Rewards for Performance

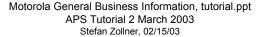
Source: 2003 Baldridge Winner Motorola CGISS Best Practices, http://www.motorola.com





Differential Investment











Additional Reading

- http://www.quality.nist.gov: Baldridge National Quality Program.
 Baldridge Award winner information (profile, application summary).
- R.S. Kaplan and D.P. Norton, *The Balanced Scorecard*, Harvard Business School Press, 1996.
- M. Brounstein, Coaching and Mentoring for Dummies, IDG Books, Foster City, CA, 2000.
- D. Grote, *The Performance Appraisal Question and Answer Book*, American Management Association, New York, 2000.
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 (Don't forget that you are a physicist, not a bureaucrat!)



