Project Human Resource Management



Learning Objectives

- Explain the importance of good human resource management on projects, including the current state of the global IT workforce and future implications for it
- Define project human resource management and understand its processes
- Summarize key concepts for managing people by understanding the theories of Abraham Maslow, Frederick Herzberg, David McClelland, and Douglas McGregor on motivation, H. J. Thamhain and D. L. Wilemon on influencing workers, and Stephen Covey on how people and teams can become more effective



Learning Objectives

- Discuss human resource management planning and be able to create a human resource plan, project organizational chart, responsibility assignment matrix, and resource histogram
- Understand important issues involved in project staff acquisition and explain the concepts of resource assignments, resource loading, and resource leveling
- Assist in team development with training, team-building activities, and reward systems
- Explain and apply several tools and techniques to help manage a project team and summarize general advice on managing teams
- Describe how project management software can assist in project human resource management



The Importance of Human Resource Management

- Many corporate executives have said, "People are our most important asset"
- People determine the success and failure of organizations and projects



The Global IT Workforce

- Although there have been ups and downs in the IT labor market, there will always be a need for good IT workers
- Thirty-three percent of the world's population is online, and 45 percent of Internet users are below the age of 25



Implications for the Future of IT Human Resource Management

- Proactive organizations are addressing workforce needs by
 - improving benefits
 - redefining work hours and incentives
 - finding future workers



Global Issues

- Many people enjoy using Facebook, Twitter, and other social media sites. Some companies even encouraged workers to use these tools to get to know their colleagues better, especially for global work teams. A 2011 survey, however, shows that companies have changed their tune after realizing that worker productivity often suffers due to social media and other distraction
- Psychologists have even created a term—Internet addiction disorder (IAD)—for the increasingly common addiction to Web-based activity. Many children suffer from this disorder, especially in Asian countries like

Education Calarina, Taiwan, and South Korea

What is Project Human Resource Management?

- Making the most effective use of the people involved with a project
- Processes include
 - Planning human resource management: identifying and documenting project roles, responsibilities, and reporting relationships
 - Acquiring the project team: getting the needed personnel assigned to and working on the project
 - Developing the project team: building individual and group skills to enhance project performance
 - Managing the project team: tracking team member performance, motivating team members, providing timely feedback, resolving issues and conflicts, and coordinating

Changes to help enhance project performance



Project Human Resource Management Summary

Planning

Process: Plan human resource management

Output: Human resource plan

Executing

Process: Acquire project team

Outputs: Project staff assignments, resource calendars, project

management plan updates

Process: Develop project team

Outputs: Team performance assessments, enterprise environmental

factors updates

Monitoring and Controlling

Process: Manage project team

Outputs: Change requests, project management plan updates,

project documents updates, enterprise environmental

factors updates, and organizational process assets updates

Project Start

Project Finish



Keys to Managing People

- Psychologists and management theorists have devoted much research and thought to the field of managing people at work
- Important areas related to project management include
 - motivation theories
 - influence and power
 - effectiveness



Intrinsic and Extrinsic Motivation

- Intrinsic motivation causes people to participate in an activity for their own enjoyment
- Extrinsic motivation causes people to do something for a reward or to avoid a penalty
- For example, some children take piano lessons for intrinsic motivation (they enjoy it) while others take them for extrinsic motivation (to get a reward or avoid punishment)

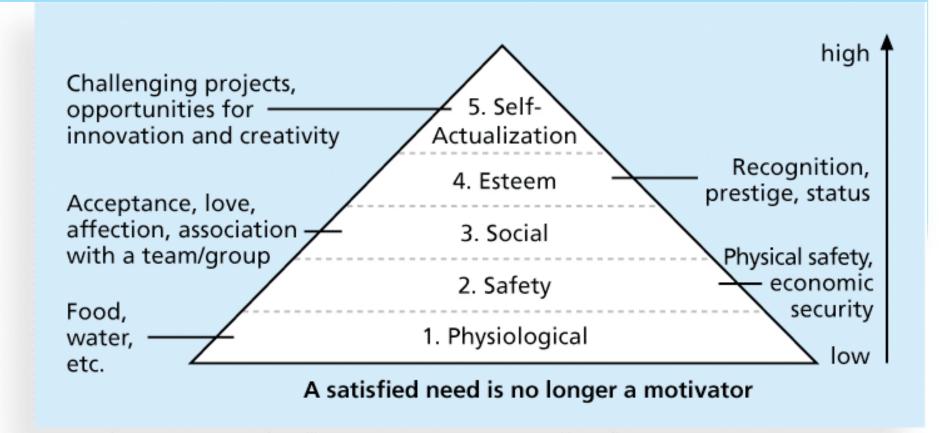


Maslow's Hierarchy of Needs

- Abraham Maslow argued that humans possess unique qualities that enable them to make independent choices, thus giving them control of their destiny
- Maslow developed a hierarchy of needs which states that people's behaviors are guided or motivated by a sequence of needs



Maslow's Hierarchy of Needs





Herzberg's Motivational and Hygiene Factors

- Frederick Herzberg wrote several famous books and articles about worker motivation. He distinguished between
 - motivational factors: achievement, recognition, the work itself, responsibility, advancement, and growth, which produce job satisfaction
 - hygiene factors: cause dissatisfaction if not present, but do not motivate workers to do more. Examples include larger salaries, more supervision, and a more attractive work environment



Examples of Herzberg's Hygiene Factors and Motivators

HYGIENE FACTORS	Motivators
Larger salaries	Achievement
More supervision	Recognition
More attractive work environment	Work itself
Computer or other required equipment	Responsibility
Health benefits	Advancement
Training	Growth



McClelland's Acquired-Needs Theory

- Specific needs are acquired or learned over time and shaped by life experiences, including:
 - Achievement: Achievers like challenging projects with achievable goals and lots of feedback
 - Affiliation: People with high nAff desire harmonious relationships and need to feel accepted by others, so managers should try to create a cooperative work environment for them
 - Power: People with a need for power desire either personal power (not good) or institutional power (good for the organization). Provide institutional power seekers with management opportunities



McGregor's Theory X and Y

- Douglas McGregor popularized the human relations approach to management in the 1960s
- Theory X: assumes workers dislike and avoid work, so managers must use coercion, threats and various control schemes to get workers to meet objectives
- Theory Y: assumes individuals consider work as natural as play or rest and enjoy the satisfaction of esteem and self-actualization needs
- Theory Z: introduced in 1981 by William Ouchi and is based on the Japanese approach to motivating workers, emphasizing trust, quality, collective decision making, and cultural values



Thamhain and Wilemon's Ways to Have Influence on Projects

- 1. Authority: the legitimate hierarchical right to issue orders
- 2. Assignment: the project manager's perceived ability to influence a worker's later work assignments
- 3. Budget: the project manager's perceived ability to authorize others' use of discretionary funds
- 4. Promotion: the ability to improve a worker's position
- 5. Money: the ability to increase a worker's pay and benefits



Thamhain and Wilemon's Ways to Have Influence on Projects (cont'd)

- 6. Penalty: the project manager's ability to cause punishment
- 7. Work challenge: the ability to assign work that capitalizes on a worker's enjoyment of doing a particular task
- 8. Expertise: the project manager's perceived special knowledge that others deem important
- Friendship: the ability to establish friendly personal relationships between the project manager and others

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Ways to Influence that Help and Hurt Projects

- Projects are more likely to succeed when project managers influence with
 - expertise
 - work challenge
- Projects are more likely to fail when project managers rely too heavily on
 - authority
 - money
 - penalty



Power

- Power is the potential ability to influence behavior to get people to do things they would not otherwise do
- Types of power include
 - Coercive ability to threaten or punish
 - Legitimate official power, comes from rules of org.
 - Expert authority of knowledge
 - Reward power to give reward
 - Referent power of personality



Covey and Improving Effectiveness

- Project managers can apply Covey's 7 habits to improve effectiveness on projects
 - Be proactive
 - Begin with the end in mind
 - Put first things first
 - Think win/win
 - Seek first to understand, then to be understood
 - Synergize
 - Sharpen the saw



Empathic Listening and Rapport

- Good project managers are empathic listeners they listen with the intent to understand
- Before you can communicate with others, you have to have rapport – a relation of harmony, conformity, accord, or affinity
- Mirroring is the matching of certain behaviors of the other person, a technique to help establish rapport
- IT professionals need to develop empathic listening and other people skills to improve relationships with users and other stakeholders

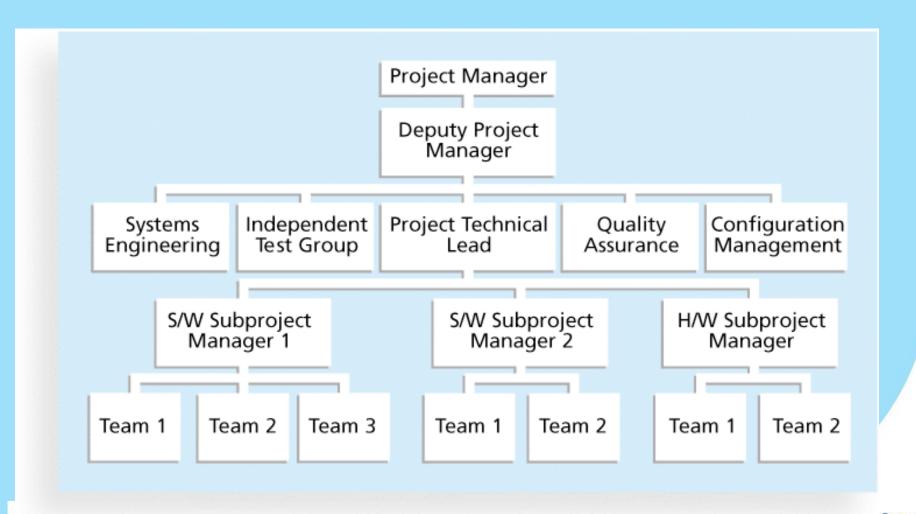


Developing the Human Resource Plan

- Involves identifying and documenting project roles, responsibilities, and reporting relationships
- Contents include
 - project organizational charts
 - staffing management plan
 - responsibility assignment matrixes
 - resource histograms

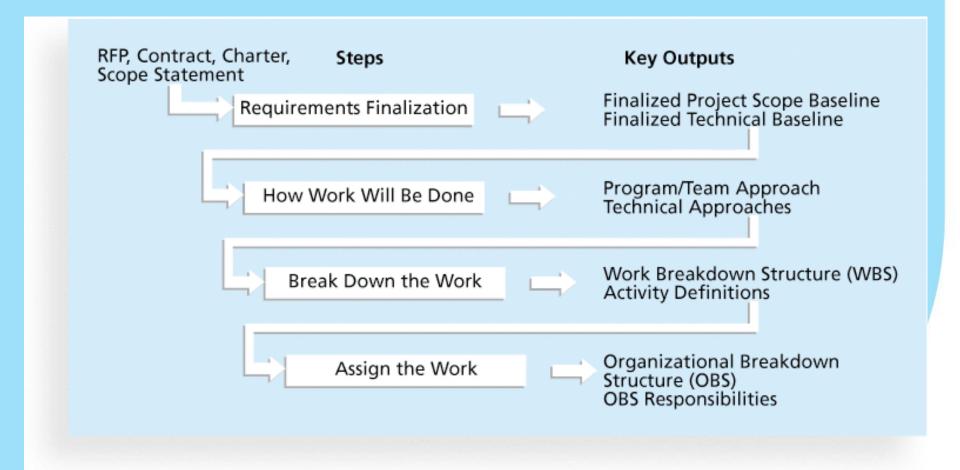


Sample Organizational Chart for a Large IT Project





Work Definition and Assignment Process



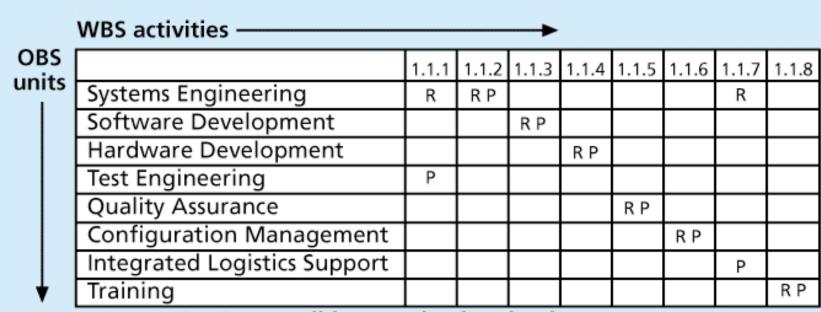


Responsibility Assignment Matrices

- A responsibility assignment matrix (RAM) is a matrix that maps the work of the project as described in the WBS to the people responsible for performing the work as described in the OBS
- Can be created in different ways to meet unique project needs



Sample Responsibility Assignment Matrix (RAM)



R = Responsible organizational unit

P = Performing organizational unit



Sample RACI Chart

	Group A	Group B	Group C	Group D	Group E
Test Plans	R	A	C	C	I
Unit Test	C	I	R	A	I
Integration Test	A	R	I	C	С
System Test	I	C	A	I	R
User Acceptance Test	R	I	C	R	A

R = responsibility

A = accountability, only one A per task

C = consultation

I = informed

Note that some people reverse the definitions of responsible and accountable.

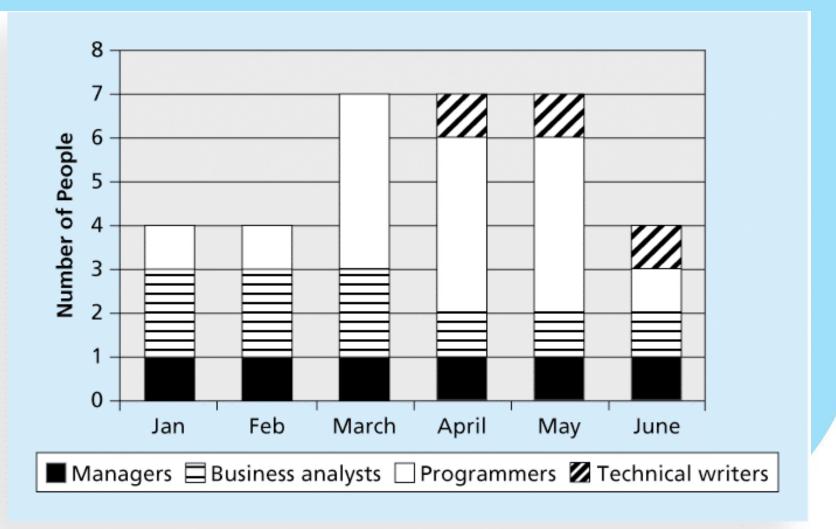


Staffing Management Plans and Resource Histograms

- A staffing management plan describes when and how people will be added to and taken off the project team
- A resource histogram is a column chart that shows the number of resources assigned to a project over time



Sample Resource Histogram





Acquiring the Project Team

- Acquiring qualified people for teams is crucial
- The project manager who is the smartest person on the team has done a poor job of recruiting!
- It's important to assign the appropriate type and number of people to work on projects at the appropriate times



Resource Assignment

- Staffing plans and good hiring procedures are important, as are incentives for recruiting and retention
 - Some companies give their employees one dollar for every hour a new person they helped hire works
 - Some organizations allow people to work from home as an incentive
- CIO's researchers suggest that organizations rethink hiring practices and incentives to hire and retain IT talent

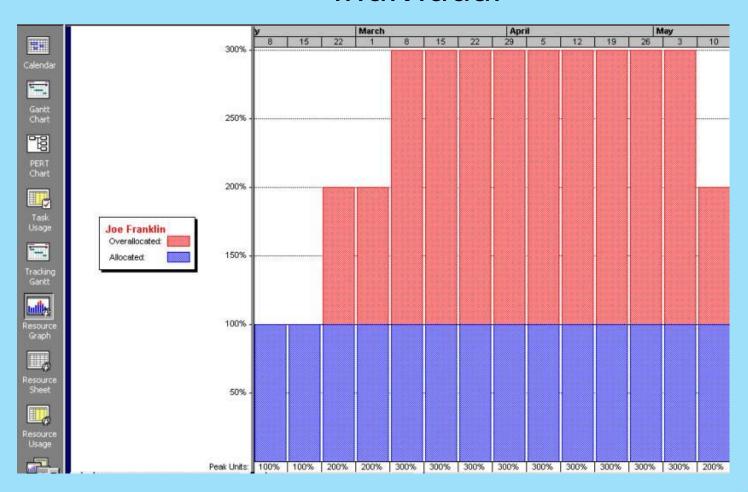


Resource Loading

- Resource loading refers to the amount of individual resources an existing schedule requires during specific time periods
- Helps project managers develop a general understanding of the demands a project will make on the organization's resources and individual people's schedules
- Overallocation means more resources than are available are assigned to perform work at a given time



Sample Histogram Showing an Overallocated Individual





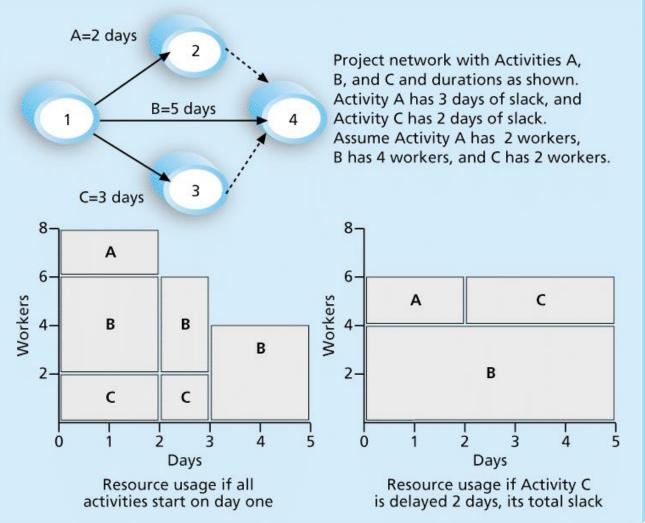


Resource Leveling

- Resource leveling is a technique for resolving resource conflicts by delaying tasks
- The main purpose of resource leveling is to create a smoother distribution of resource usage and reduce overallocation



Resource Leveling Example







Benefits of Resource Leveling

- When resources are used on a more constant basis, they require less management
- It may enable project managers to use a justin-time inventory type of policy for using subcontractors or other expensive resources
- It results in fewer problems for project personnel and accounting department
- It often improves morale



Developing the Project Team

- The main goal of team development is to help people work together more effectively to improve project performance
- It takes teamwork to successfully complete most projects



Tuckman Model of Team Development

- Forming
- Storming
- Norming
- Performing
- Adjourning



Tuckman Model of Team Development

Forming

Team acquaints and establishes ground rules. Formalities are preserved and members are treated as strangers.

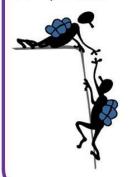


Storming

Members start to communicate their feelings but still view themselves as individuals rather than part of the team. They resist control by group leaders and show hostility.

Norming

People feel part of the team and realize that they can achieve work if they accept other viewpoints.



Performing

The team works in an open and trusting atmosphere where flexibility is the key and hierarchy is of little importance.



Adjourning

The team conducts an assessment of the year and implements a plan for transitioning roles and recognizing members' contributions.





Training

- Training can help people understand themselves, each other, and how to work better in teams
- Team building activities include
 - physical challenges
 - psychological preference indicator tools



Meyers-Briggs Type Indicator (MBTI)

- MBTI is a popular tool for determining personality preferences and helping teammates understand each other
- Four dimensions include:
 - Extrovert/Introvert (E/I)
 - Sensation/Intuition (S/N)
 - Thinking/Feeling (T/F)
 - Judgment/Perception (J/P)
- NTs or rationals are attracted to technology fields
- IT people vary most from the general population in not being extroverted or sensing

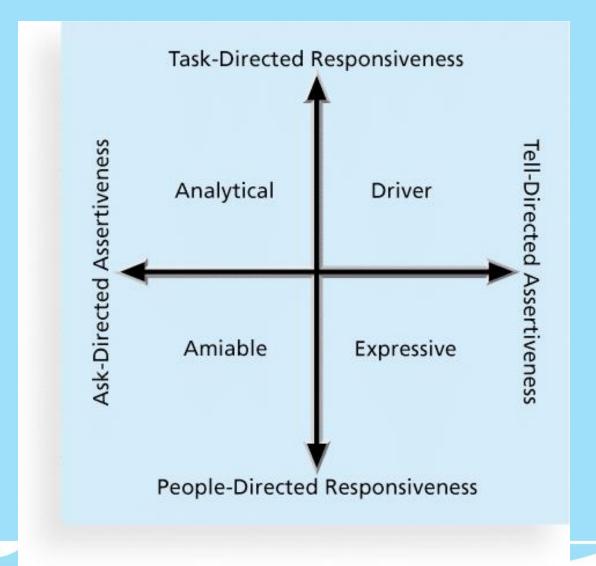


Social Styles Profile

- People are perceived as behaving primarily in one of four zones, based on their assertiveness and responsiveness:
 - Drivers
 - Expressives
 - Analyticals
 - Amiables
- People on opposite corners (drivers and amiables, analyticals and expressives) may have difficulties getting along



Social Styles



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DISC Profiles

- Also uses a four-dimensional model of normal behavior
 - Dominance
 - Influence
 - Steadiness
 - Compliance
- People in opposite quadrants can have problems understanding each other



The DISC Profile

It Compliance (Blue)

Data driven, risk averse, concerned, works well alone, prefers processes and procedures, not very communicative or social

*I*Dominance (Red)

Direct, decisive, assertive, outcome oriented, competitive, self assured, takes control, has to win

You Steadiness (Green)

Calm, sincere, sympathetic, cooperative, cautious, conflict averse, good listener, wants to maintain stability

We Influence (Yellow)

Persuasive, optimistic, outgoing, verbal, enthusiastic, strives to win others over, leadership through acclimation



Reward and Recognition Systems

- Team-based reward and recognition systems can promote teamwork
- Focus on rewarding teams for achieving specific goals
- Allow time for team members to mentor and help each other to meet project goals and develop human resources



Managing the Project Team

- Project managers must lead their teams in performing various project activities
- After assessing team performance and related information, the project manager must decide
 - if changes should be requested to the project
 - if corrective or preventive actions should be recommended
 - if updates are needed to the project management plan or organizational process assets.

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Tools and Techniques for Managing Project Teams

- Observation and conversation
- Project performance appraisals
- Interpersonal skills
- Conflict management

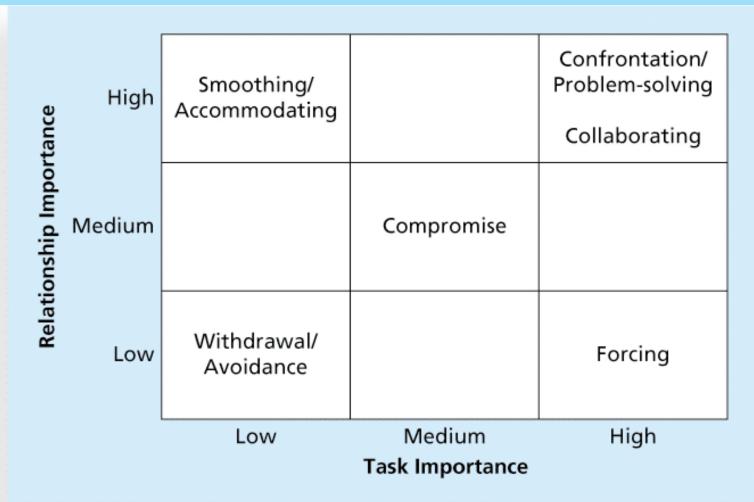


Conflict Handling Modes

- Confrontation: Directly face a conflict using a problem-solving approach
- 2. Compromise: Use a give-and-take approach
- Smoothing: De-emphasize areas of difference and emphasize areas of agreement
- 4. Forcing: The win-lose approach
- Withdrawal: Retreat or withdraw from an actual or potential disagreement
- 6. Collaborating: Decision makers incorporate different viewpoints and insights to develop consensus and commitment



Conflict Handling Modes



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Conflict Can Be Good

- Conflict often produces important results, such as new ideas, better alternatives, and motivation to work harder and more collaboratively
- Groupthink: Conformance to the values or ethical standards of a group. Groupthink can develop if there are no conflicting viewpoints
- Research suggests that task-related conflict often improves team performance, but emotional conflict often depresses team performance

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General Advice on Teams

- Be patient and kind with your team
- Fix the problem instead of blaming people
- Establish regular, effective meetings
- Allow time for teams to go through the basic team-building stages
- Limit the size of work teams to three to seven members



General Advice on Teams (cont'd)

- Plan some social activities to help project team members and other stakeholders get to know each other better
- Stress team identity
- Nurture team members and encourage them to help each other
- Take additional actions to work with virtual team members



Using Software to Assist in Human Resource Management

- Software can help in producing RAMS and resource histograms
- Project management software includes several features related to human resource management such as
 - Assigning resources
 - Identifying potential resource shortages or underutilization
 - Leveling resources



Project Resource Management Involves Much More Than Using Software

- Project managers must
 - Treat people with consideration and respect
 - Understand what motivates them
 - Communicate carefully with them
- Focus on your goal of enabling project team members to deliver their best work



Summary

- Project human resource management includes the processes required to make the most effective use of the people involved with a project
- Main processes include
 - Plan human resource management
 - Acquire project team
 - Develop project team
 - Manage project team

