

Session G55

How to Lead a Team

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Agenda

- **This session will help you be a better Team Leader (Building leadership skills is a life long pursuit)**
- **Agenda:**
 - ▶ **The goal**
 - ▶ **How to get there**
 - **Planning**
 - **Running the project**
 - **In trouble?**
 - **Finishing**
 - ▶ **Continue to grow**
 - ▶ **References**

The Goal

- **What is your job?**
 - ▶ **Get your task done.**
 - **It is OK to finish early**
 - ▶ **Make team members efficient**
 - ▶ **Reduce risks, in fact, handle the risks**
 - ▶ **Help other teams**
 - **It doesn't matter if your end of the ship isn't sinking**
- **What do you get credit for?**
 - ▶ **Doing your job.**
 - ▶ **Growing your people**
 - ▶ **Reducing the managers' load**

The Goal

- **Their Goal**
 - ▶ **Keep out of trouble**
 - ▶ **Meet Expectations:**
 - **On time (original or adjusted date)**
 - **Promised content (original or adjusted content)**
 - ▶ **Other Expectations:**
 - **Quality (real and opinion)**
 - **Tracked Checkpoints**
 - **dates**
 - **entry/exit criteria (examples: design, code-unit test, component test, & system test)**

Planning

■ The Rules:

- ▶ If you don't know where you are going, anyplace will do.
- ▶ If you don't tell others what you are going to do, they will expect everything NOW.
 - Be Specific
- ▶ Everyone remembers the dates.
- ▶ Nobody remembers the dependencies.
- ▶ Dates are harder to change than content.
- ▶ It is easier to add content than to remove it.
- ▶ Risks are bigger than you originally thought
- ▶ There will be problems that nobody can see now.
- ▶ Creativity cannot be scheduled.

Planning

■ Keep Records

- Project justification
- Plan details
- Assumptions
- How it turned out, with details

■ Topics:

- ▶ How to make a plan
- ▶ Risks
- ▶ How to estimate better
- ▶ Staffing considerations

Planning

- **How to make a plan**
 - ▶ **Pick a date to be finish the plan**
 - ▶ **List the parts**
 - **Do while there is time**
 - **Both directions**
 - ◆ **Front - What needs to be done next?**
 - ◆ **Back - What do I need to do this?**
 - **Generate Ideas**
 - ◆ **Write down any ideas you get**
 - ◆ **Talk to everyone when fishing for ideas**
 - **Identify**
 - ◆ **What you don't you know?**

Planning

- **For each part:**
 - ▶ **Determine how long will each part will take**
 - **Effort**
 - **Elapsed time**
 - ▶ **Skills**
 - ▶ **Risks**
 - ▶ **Record where it fits in your plan**
 - **What does it depend on?**
 - **What depends on it?**
 - ▶ **Identify flexibility**
 - **Necessary/unnecessary content**
 - **Possible additional content**
 - **Plan your "wiggle room"**
- **Now lay out your plan and critical path**

Planning

- **Risks**
 - ▶ **Complicated interface**
 - **define and test just the interface**
 - ▶ **Complicated Algorithm**
 - **Small program to test**
 - **Make close to real**
 - **Move into real code**
 - ▶ **Quantity of code to write**
 - **Break into pieces, measure and assign**
 - ▶ **Unknown risks**
 - **Who knows what**
 - **Study first**
- **Leave time for things you cannot see or imagine**

Planning

- **How to estimate better**
 - ▶ **Estimate and Measure everything**
 - ▶ **Track Details and Costs**
 - **printer details**
 - **number of parts**
 - **tightest tolerance**
 - **printing speed**
 - **program details (possible)**
 - **number of parts (source files)**
 - **number of routines**
 - **interfaces**
 - **structures (DSECTs)**
 - **performance/space constraints**

Planning

- **Staffing considerations**
 - ▶ **Break work into person sized pieces**
 - **Well defined interfaces between people**
 - **The fewer the internal dependencies, the better**
 - ▶ **Assign work closest to what each person wants to do**
 - **Ask their manager about planned growth**
 - **Ask each person**
 - **Determine their skills**
 - **Determine what they need to learn**
 - ▶ **Work out internal dates for every person**
 - ▶ **Share the work nobody wants.**
 - **"If it is a bad sandwich, everyone takes a bite."**

Running the Project

- **Topics**
 - ▶ **Know where you stand**
 - ▶ **Track where you have been**
 - ▶ **Constantly REDUCE risks**
 - ▶ **Solidify parts**
 - ▶ **Test**
 - ▶ **In trouble?**
 - ▶ **People Problems?**
 - ▶ **Miscellaneous hints**

Running the Project

- **Know where you stand**
 - ▶ **Report what needs to be reported**
 - **Not too much**
 - **Not too little**
 - ▶ **Refine your intermediate schedule**
 - **Set more checkpoints for yourself and your team**
 - ▶ **Keep on track - don't change your schedule lightly**
 - **Have the answer to: "What is the new news?"**

Running the Project

- **Track where you have been**
 - ▶ **What to keep?**
 - **Unexpected Problems**
 - **Late Dependencies**
 - **Missed internal dates**
 - **Effort required**
 - **Amount of code written**
 - ▶ **Why?**
 - **Will help you figure out where you are**
 - **Will be needed if you get in trouble**
 - **Will help with next project**

Running the Project

- Constantly REDUCE risks
 - ▶ Focus on your highest risks first
 - ▶ Don't accept additions that add risk
 - ▶ Use your network
 - ▶ Don't make 'casual' or 'nice to have' changes, late

Running the Project

- Solidify parts
 - ▶ When there is something useful, put its parts in the library and compile them with the library compiler.
 - ▶ Finish up parts
 - Don't get into the situation where a lot of parts are 'almost done'
 - ▶ Don't undo test results
 - If a part is tested, don't change it.
 - ▶ Finished parts in the library are money in the bank

Running the Project

■ Testing

▶ Rules:

- Testing takes a different mind set
- No body tests their own code

▶ Developers make sure their code works

▶ Others do the testing

- Build test plans from design documents
- Make sure all functions work using the externals
- Test the code as a whole
- Limit developer contamination

▶ Only fix problems testers find.

Running the Project

■ Are you in trouble?

▶ This is like surfing

- Your Goal: Stay ahead of the crashing wave

▶ Know first.

- Listen to others on your project
- Status meetings tell you what the managers are focused on. (Just like "Whack a Mole")
- Ask others without asking
 - Project managers
 - Managers
 - Other team leaders
 - Testers

Running the Project

- Are you in trouble?
 - ▶ How to ask others without directly asking.
 - Open communication and listen
 - Approach people that are "in the know."
 - Start a short conversation on something else.
 - If they are thinking about your project, they will say something.
 - You can say "We spoke and you didn't mention..."
 - ▶ Don't let your manager find out from others
 - They will always find out, just be first
 - Know all -
 - How bad is it
 - Have a plan to catch up

Running the Project

- How to get out of trouble
 - ▶ Plan to get back on schedule
 - add resources (OT and/or folks)
 - Adding OT is easier for a short time
 - If adding people, training is a problem
 - change content
 - change date (usually painful)
 - change quality (not good, the default)
 - ▶ Find Excuses
 - New News?
 - Dependency Problems?
 - Unexpected Problems?
 - Unexpected effort?

Running the Project

■ People Problems?

▶ Problems you can see

- load unbalanced?
- Too many interrupts?
 - Do they need protection from interrupts?
- big effort, no result
 - work not defined well enough?
 - overlap of responsibilities?
 - person doing work in too much detail?
 - bad time estimate?
- arguments between team members?
 - define boundaries

Running the Project

■ People Problems?

▶ Problems you cannot see

- Other projects they are working on
 - Speak to other team leaders
- Family problems
 - Stay away from these
 - Person may need some slack

▶ Bad news to deliver?

- Be helpful
- Always know your audience.
- Deliver bad news in private
- Be careful with their reputation

Running the Project

- Miscellaneous hints
 - ▶ Take care of the team and they will take care of you
 - build team
 - grow members
 - advertise members
 - ▶ Write code to do common tasks
 - Compiles
 - ftp
 - Converting code

Finishing

- It is OK to finish early
- Topics
 - ▶ Know when your are done.
 - ▶ Accounting
 - ▶ Rewards (+/-)
 - ▶ Reply to - Requests for Recommendations

Finishing

- **Know when you are done.**
 - ▶ **Everything is in the library, tested, and books done**
 - ▶ **Avoid "The Trap"**
- **The Trap**
 - ▶ **"I'm almost done. Just one more change."**
- **Solution**
 - ▶ **Know what your customer wants**
 - ▶ **Focus on your end result and justification**
 - ▶ **Use a "get done" plan**
 - **Don't fix everything**
 - **Closer to end, Greater the severity of the problem needs to be to be fixed.**
 - **Record things to do in future releases**

Finishing

- **Keep an accounting for yourself**
 - ▶ **What went well and what didn't**
 - ▶ **Who did what well**
 - ▶ **How long did it take**
 - **effort**
 - **elapsed time**
- **Start looking for and planning the next project**

Finishing

- **Give out rewards (+/-)**
 - ▶ **Inform management**
 - **Why inform management?**
 - **To prevent bad promotions and awards**
 - **To vote on who gets promotions and awards**
 - **Provide management details that they can't observe**
 - ▶ **Brag to other team leaders and managers**
 - ▶ **Reply to "Requests for Recommendations"**

Finishing

- **How to inform management**
 - ▶ **Just provide your data, not your judgment**
 - ▶ **Be specific**
 - **Difficulty**
 - **Risk**
 - **Quantity**
 - **Quality**
 - **Helping others**
 - ▶ **For your best team members**
 - **Suggest promotions and/or awards**
 - **Writing is more powerful than words**
 - ▶ **For you worst team members**
 - **Managers will do the math, but they might ask**

Finishing

■ Example:

- ▶ "Pete did the most difficult part and he wrote the most code (3K)."
- ▶ If asked "How did John do on the code?"
 - "It looked very nice and it did the job."
 - "He wrote about 1K."

Finishing

■ How to do a recommendation

- ▶ Focus on positive points
 - Don't say anything negative
 - Let the reader do the math
- ▶ It is better to give data than judgment
 - Data - what was done and can be measured
 - Judgment - your opinion
- ▶ Be ready with the answer to:
 - "Would you hire them again?"

Continue to Grow

- **The Road to Learning**
 - ▶ **Make your own successes/mistakes**
 - Painful
 - Not enough time
 - ▶ **Learn from other's successes/mistakes**
 - This session
 - Watch others
 - Status meetings
 - ▶ **Figure it out**
 - Time and Effort Estimates
 - Critical Path
 - Finding room to recover

Continue to Grow

- **Pay attention to other leaders**
 - ▶ **What did they do and how did it work?**
- **Attend Status Meetings**
 - ▶ **Who is in charge?**
 - ▶ **What are others getting away with?**
- **Study Behavior Modification**
- **Find out how well you are doing.**
 - ▶ **Make adjustments**

References

- **"The One Minute Manager"**
 - ▶ **Kenneth Blanchard and Spencer Johnson**
- **"Putting the One Minute Manager to Work"**
 - ▶ **Kenneth Blanchard and Robert Lorber**
- **"Zapp! The Lightning of Empowerment"**
 - ▶ **William Byham and Jeff Cox**
- **"Managing Behavior on the Job"**
 - ▶ **Paul L. Brown**
- **"Management of Organizational Behavior"**
 - ▶ **Paul Hersey and Kenneth Blanchard**

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