HOW TO SOLVE PRODUCTION PROBLEMS

STEP 1: ISOLATE THE PROBLEM

1. State the Problem	Is it Mechanical, pertaining to things and places?
	Is it People who: - Don't know, - Can't do, - Don't care, - Won't do?
2. Prove the Problem	Statistical data of trouble in production, performance, attitude.
3. Explore the Cause	Is it Methods, Layout, Tools, Equipment, Materials, Design, Hazards?
	Is it Wrong assignment? Faulty instructions? Personality situation?
4. Draw Conclusion	Is it MECHANICAL? PEOPLE? or BOTH

STEP 2: PREPARE FOR SOLUTION

MECHANICAL?	PEOPLE?	
Methods, Layout, Materials, Tools, Equipment, Design	Don't know? Can't do?	Don't care? Won't do?
Then improve Method for better way ANALYZE: • Overall situation 1. Flow chart 2. Flow diagram Question overall job	Then improve Knowledge – Productivity - Skill GET READY TO INSTRUCT • Prepare the Workplace. - Get specified tools, material. - Arrange for best efficiency	 Then improve Attitude and behavior GET THE FACTS Review the records. What rules and plant customs apply? Talk with individuals, get opinions and feeling.
 Specific situation Method Method breakdown Layout Work station set-up QUESTION EACH DETAIL. Using questions starting with: WHY?, WHAT?, WHERE?, WHEN?, WHO?, HOW?	 Prepare Yourself Breakdown job for instruction. List the important steps. List key points in each step Plan the instruction. Prepare the Learner Put him at ease. State job. Learn his experience. Interest him in learning Explain use and care of tools, equipment, safeguards, etc. Position him for learning 	 WEIGH THE FACTS Fit facts together Check for gaps, omissions, contradictions. Consider their bearing upon each other. Check against company practices and policies. MAKE THE DECISION Consider effect upon individual, group, production

STEP 3: CORRECT THE PROBLEM

DEVELOP THE IMPROVED WAY	INSTRUCT THE LEARNER	TAKE ACTION		
Eliminate unnecessary details.Combine where practical.Rearrange for better sequenceSimplify necessary details.	 Instruct. Tell, Show, Illustrate one step at a time, stressing key points. Test with "W" questions. 	 Consider time and place. Explain the action Why it is best for him. Advantages and benefits 		
RECORD PROPOSED CORRECTION • Make a flowchart of new method • Make breakdown of new method	 Try out learner's performance. Have him do the job Have him repeat, Telling what he is doing Showing, stressing Key points Test him with "WHY" questions. 	 Secure understanding and acceptance. Put into effect. Consider feelings and attitudes. Notify all concerned. 		
PUT IT INTO EFFECTGet final approval of all concerned onSafety, Quality, Quantity, Cost	 Put him on his own. Stress quality and safety. Encourage questions about job. Tell him who to ask for help. 			

STEP 4: CHECK AND EVALUATE RESULTS

Follow up to see that the change or the correction has been made. What improvements do the records show in Quality, Quantity, Safety, Cost? Consider the Human Angle. Note changes in attitudes and relationships Inform all those concerned of progress and results of the action or correction. Look for ways to prevent a recurrence of this problem