

**METHODS FOR DEVELOPING TECHNICAL CREATIVITY****Salimjan Akramovich Baltabaev**

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**Annotation**

This article examines humanity's drive to develop new technologies and machines, increase labor productivity, and enhance labor efficiency to meet growing needs and make work easier. The development of science, technology, and engineering demonstrates that scientific and technological progress can only be achieved through the training of a large number of specially trained specialists.

**Keywords**

Technique, creativity, methodology, creativity, solution, teaching, education, ability, object, technology.

**Аннотация**

В данной статье рассматривается стремление человечества к созданию новых технологий и машин, повышению производительности труда и увеличению коэффициента полезного труда для удовлетворения растущих потребностей и облегчения труда. Развитие науки, техники и техники показывает, что только благодаря подготовке большого числа специально обученных специалистов можно обеспечить развитие научно-технического прогресса.

**Ключевые слова**

Техника, креативность, методология, креативность, решение, преподавание, образование, способность, объект, технология.

Technical methods used in creativity, techniques used in creativity, methods advantages and weaknesses, the role of creativity in activity. In invention, observation, intuition, and intellect are important. Creative. Problem solving using adequate methods: synectics, theoretical and morphological analysis methods, functional price method. Inventors personal-psychological features character: social quality, experience-quality category, mental quality family, hereditary quality row.

**Technicians used creative methods.** The first technician, devices and simple mechanisms, emerged with humanity. Every good person in need faced a difficult situation, and the technician's task was to solve the problem. Humanity continues to do so. The growing need for satisfaction and the facilitation of his/her work are being created. To this end, new technology and automobiles are being created. Their work increases fertility and the useful work coefficient increases movement. Science, knowledge, and technology are growing in this progress. It turns out that many people, especially those from the past, are prepared simply because scientific and technical developments provide the necessary resources.

Industry working in release to the surface arrived need technique development speed up service executor important from factors one This idea consists precisely technology for creativity submit application on possible.

In the 1940s, technical solutions to research and make active use of their styles would increase. In this regard, the shortage of nuclear energy, rocketry, and electronic computing methods, their machines, and the development of improved performance, had a negative impact. During this period different in directions research take on road How result next situations definite:

- firstly, it is difficult to solve problems even with genius, people are also alone, they are unable to unleash themselves, creativity is necessary to make a team to the method;

- secondly, technical solutions working to get out separated time brevity attention take scientific explore continuous accordingly new ideas working Exit with together take on the road necessary;

- thirdly, there was a lot of idea among the intelligent and effective ones who were separate to take their paths mark.

**"Action and Error" methods.** Creativity is studied for its ability to recognize the need. Previously, at times, that is, weapons in those times, ingenuity with in practice only one "Action" and "Error" method was used. They do their own work in the process of problemsolving techniques in a solution; each different (numerous) action in execution leads to many errors, and these errors at least bring movement. Every good problemsolving technician is an inventor of the "Amal and Error" methods. They use them. This essence of this consists of a problemsolving technique in the process; the inventor has the possibility of options; all of them used without pouring on demand; responding; giving; one chooses. A problemsolving technician is more of an inventor; observation, intuition, and intelligence are important; the owner

**The "Action and Error" method has its advantages and disadvantages.** The "Practice" and "Error" method also has its drawbacks. It's very difficult to use this methodology. Each new technique, problem in solution, forces the inventor to start over again. The "Action" and "Error" method is very difficult work, requiring willpower, and from it, problems are successfully solved. Science and technology progress under these circumstances. Technology developed during implementation has a huge, ambitious, large-scale effect. The gift of using methods will require this. But this experience turns out to be technical. Problems in solution are suitable for use. All elements known at the level are used in the "Action" and "Error" methods.

**"Mental attack method.** Scientists, in my opinion, creative activity is transparent to the law based on the image. Show creativity problems solution adequate methods to find the ground. These methods are divided into 2 groups: divided into. The first " Brainstorming" synectics, control questions, morphological analysis methods, these associative thoughts and unforeseen decision nature to the mechanisms. These methods are based on Use very light, but used the object to its very essence is not connected. The second group is ingenuity: problem solving, algorithm, functional-cost analysis methods, and others. These methods include the use of very complex, but the object essence is open to give focused on production. Produce enterprises scientific in the basics will need the emergence of. Yes, there are many of them. Scientific check to institutions, cunning science develop the reason will be in the 1990s. The focus is on nuclear energy, rocket science, electronics, computing technology, machines, an intensive step with developed administration, creative work, scientific, essentially, organization make their way search. They began. Each good direction in accordance with take went. Of these, one American businessman and inventor, A. Osborne, proposed the " brainstorming" method. In my opinion, who are they? The idea to give take to the opportunity has. If so, who are they? His/her critical analysis to do take to the opportunity to have them. Two to the group. That is, the division into "generators" and "experts." The proposal will achieve.

**" brain" method assault » is used next order rules working Published:**

A brainstorming method using a problem-solving approach involving 12-25 people. People participate in the solution. They need it. Half of the idea is provided by the suppliers, followed by analysis. Those who implement it. Idea generation is a group effort. People who contribute to the group will be included. Experts contribute to the analytical and critical thinking of individuals. A qualified, experienced employee, who leads the leadership, contributes to the brainstorming session.

2. Generators posted By given question solution find For maximum on hip ideas They give. Taking into account ideas application to tape recorders letter Experts these from the inside Please selectively They receive.

3. Solving the weight problem Depending on the chosen session format, the duration is from 30 to 50 minutes. It is possible to continue to be able to.

4. On sessions " Brainstorming assault. participation is being carried out employees in the middle Friend to a friend relatively respect and free attitude installation necessary.

5. If session to no avail When This will end his / her participants change necessary. Problem Also repeat installation seeing Reaching the goal By words inventors private psychological characteristics of the inventors next private quality formed be necessary:

- social quality category - worldview, spirituality, work and aesthetics qualities;

- experience quality category - understanding, scientificity, skill and size;

- mental quality category - imagination one honesty, attention concentration, thinking width, independent and critical thinking, memory strength, - hereditary quality category - resourcefulness, intelligence, ingenuity, diligence, responsiveness, logic, common sense meaning thoughtfulness.

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