

Dykan O.V.

Candidate of Economic Sciences,
Senior Lecturer at Department of Management and Administration
Ukrainian State University of Railway Transport

INTEGRATION OF ENGINEERING IN THE INNOVATION ACTIVITY OF INDUSTRIAL ENTERPRISES OF RAILWAY TRANSPORT

In the article the concept of “engineering” is studied and its specific features are revealed: this type of business, including the work and services, are of a commercial nature; engineering is inextricably linked with the intellectual and creative activity and provides development and innovation. It is concluded that engineering is between science and production, forming technology (including technical) base production activities. Systematized approaches to the classification of engineering and revealed its views on grounds such as the types of services, industry affiliation, stage of the project life cycle, degree of innovations’ novelty. Developed a concept of engineering center of railway transport industrial enterprises, which provides development of this center not only as a structure providing the engineering services, but also as an educational platform and expert in the field of engineering.

Determined that the Engineering Center of industrial railway transport has become an institution that integrates sophisticated large-scale innovative investment projects aimed at innovative development of the railway

industry and transport and logistics systems of regions. It is grounded that participants, along with industry rail transport engineering center, are: producers of components for railway vehicles; educational establishments and industry research institutes, centers of collective use; competence centers; overseas partners, ensuring the transfer of technology and know-how; PJSC “Ukrzaliznytsia”.

It is defined that the strategic goal of industrial engineering center railway enterprises is an organization of unified educational, scientific and innovative space to create high-tech railway equipment. The expected effect of the engineering center of industrial railway transport is to reduce the cost of development work; form technology of innovative products for rail transport on the principle of “turnkey” and accelerate the innovation process and output of innovative products to the market; cost reduction projects in one-two orders of magnitude due to the early detection of errors; reduce complexity and material consumption during processing.