

## *Abstract*

*Pre-diploma practice is an important component of training on bachelor educational qualification level, which takes place after the end of the full theoretical course. The purpose of pre-diploma practice is increasing the depth and a consolidation of theoretical knowledge, applying this knowledge as practical skills to real-world problems in manufacturing, scientific research, design and technology and the practical organization. The main objective of pre-diploma practice is to collect the materials needed to carry out the degree project or work. In this work was considered defects that occur when the electro-beam melting (EBM) titanium-based alloys, as well as the advantages and disadvantages of EBM compared to other methods.*