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**Additive manufacturing —
Qualification principles —
Installation, operation and
performance (IQ/OQ/PQ) of PBF-LB
equipment**

*Fabrication additive — Principes de qualification — Installation,
fonctionnement et performances (IQ/OQ/PQ) de l'équipement de PBF-
LB*



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Foreword

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Introduction

Additive manufacturing is a machine-centric process. This document provides recommended practices for machine-related process qualification for serial production of metal parts produced with the powder bed fusion by laser beam process (PBF-LB/M). This document is addressed to organizations that already have a comprehensive quality system in place.

While this document is process specific, it is intended to apply to any industry with strict quality requirements. In such industries, it is not possible to complete machine qualification without ensuring repeatable production of the desired process result, given the current state of AM process knowledge. Operational quality and part performance quality sections are included for this reason.