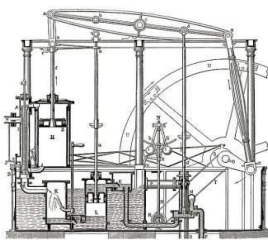


National Institution for Quality and Reliability

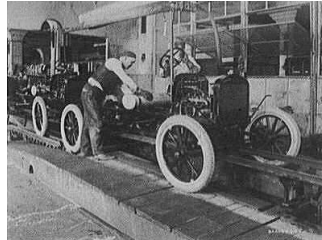


INDUSTRY - 4.0 Awareness Program

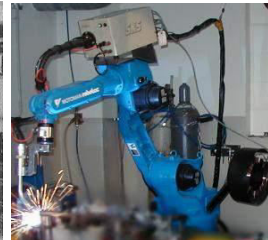
The fourth industrial revolution – characterised by the increasing digitization and interconnection of products, value chains and business models – has arrived in the industrial sector. The first significant driver for the advance of Industrial Internet solutions lies in the opportunity to integrate and better manage horizontal and vertical value chains. The digitization and interconnection of products and services (Internet of Things/Services) is a second important driver. It will contribute strongly to ensuring competitiveness and promises additional revenues of 2% to 3% per year on average. The various opportunities, the large extent of change and the elevated need for investments make the Industrial Internet one of the most important topics for corporate management. Industry 4.0 not only comprises the digitization of horizontal and vertical value chains but will also revolutionise the product and service portfolio of companies – with the ultimate goal of better satisfying customer needs.



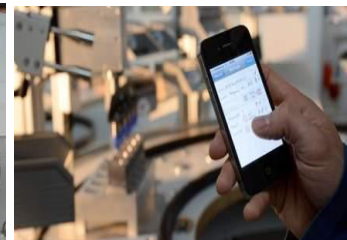
End of the 18th century
1. Industrial revolution
Introducing mechanical production machines powered by water and steam



Beginning of the 20th century
2. Industrial revolution
Introducing mass production lines powered by electric energy



Beginning of the 70s
3. Industrial revolution
Through the use of electronics and IT further progression in autonomous production



Today
4. Industrial revolution
Based on cyber-physical-systems

Industry 4.0 is nothing but Smart Manufacturing. Manufacturing, world over is going through another transformation using the digital technology which has now become a lot cheaper. And thus transformation is mainly to free up the minds of the people in the Shop floor so that the mind space is put to more productive use. As part of the Indian Industry, we need to embrace this global transformation to survive and to protect our competitive edge. This program is to create awareness about this transformation and more importantly to generate enough sensitization so that our Indian Industry will speed up their transformational process. This program also will give a perspective about how Quality Assurance as a function will get transformed under the ambit of Industry 4.0.

With the aim of sensitising the whole gamut of industries to the needs of transforming to the next industrial revolution, NIQR Chennai Branch is organising a training program; the program is also open to students of engineering and management colleges to enable them to become industry-ready. NIQR Chennai Branch has set its sight on educating 20K people on this.