

Quality 4.0

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PRODUCTIVITY ACADEMY



What is Industry 4.0?



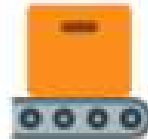
INDUSTRY 1.0

18th century

Steam power

Mechanical production

Quality 1.0:
Self-inspection



INDUSTRY 2.0

19th century

Electricity

Mass production and
assembly lines

Quality 2.0:
Inspection / control /
assurance / military
standards



INDUSTRY 3.0

Mid 20th century

ICTs
Electronics

Automation and
networked production

Quality 3.0:
Software for QMS,
improvement and
planning



INDUSTRY 4.0

Today

Cyber physical systems,
Internet of things (IoT),
networks

Intelligent, flexible,
distributed production

Quality 4.0:
Continuous quality
with real-time data
and IoT

Enabling
Technology

Production
Change

Quality

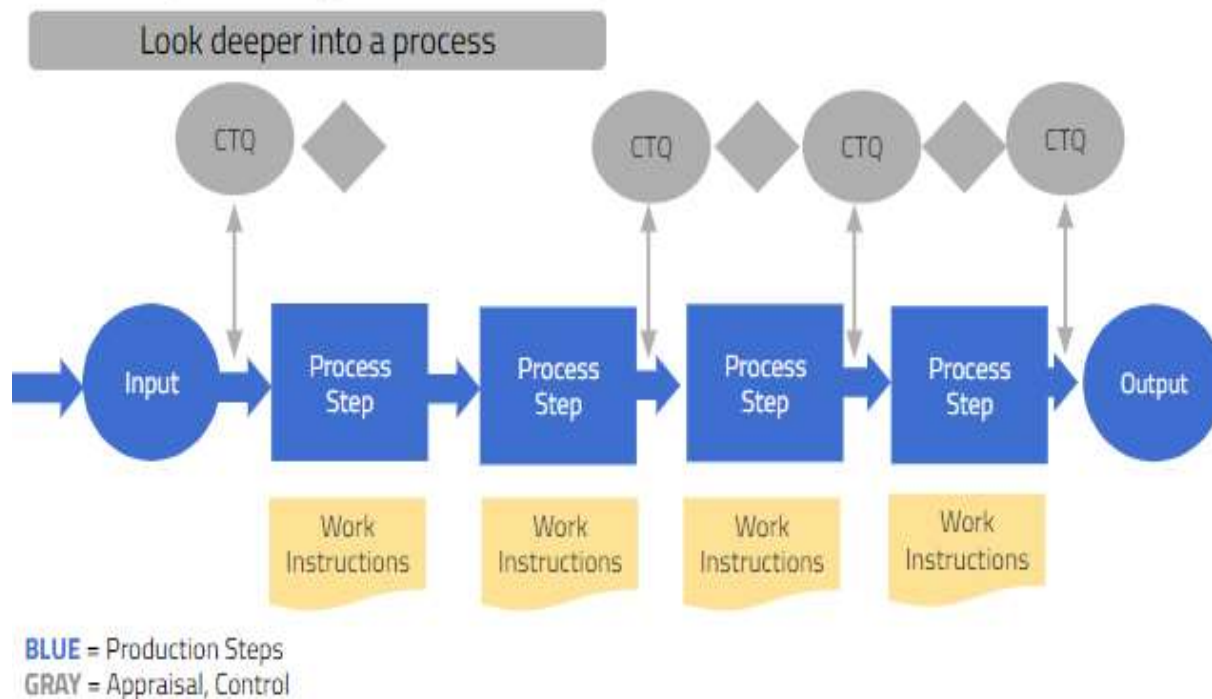
Quality 4.0



Quality 4.0 uses real-time data from Industry 4.0 technologies. These include connected devices and drive quality professionals' continuous improvement initiatives.

Current State of Quality

Quality Management Today

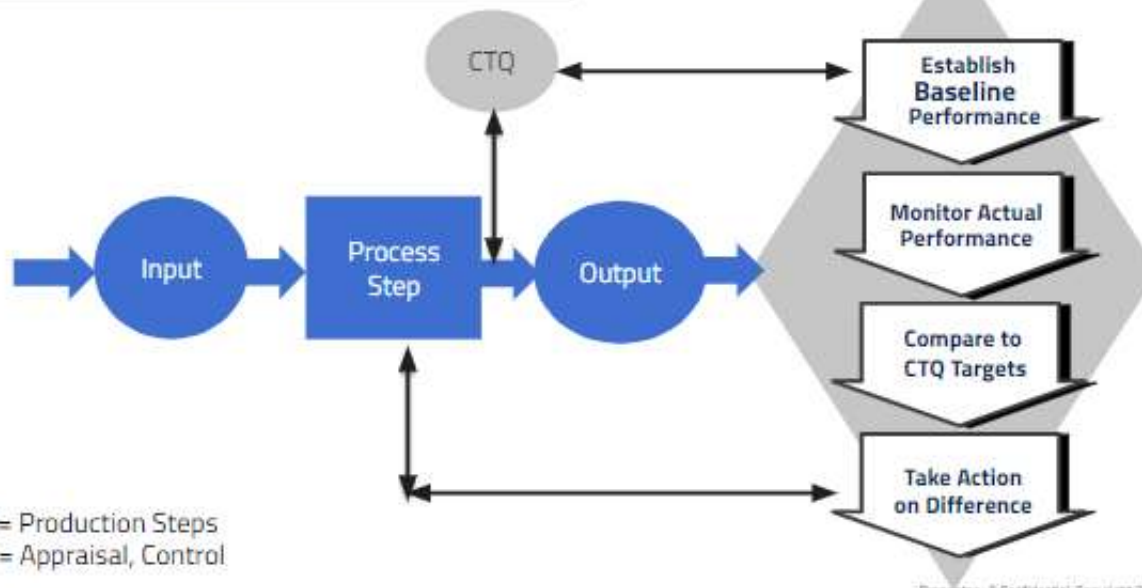


Most activities focus on quality control, which contributes to a higher overall cost of quality. Cost of quality is the additional cost spent to prevent failure.

How quality management works with industry 4.0 technology

The QC Loop

And even deeper into a process



BLUE = Production Steps
GRAY = Appraisal, Control

quality professionals can monitor it, compare it to the benchmark, and take action when it doesn't meet the benchmark.

What does Quality 4.0 means for Quality Professionals?

Conclusion



Industry 4.0 technologies are driving a transformation throughout the manufacturing industry. Data quality and interconnected **data sharing** systems will have great effects on quality management, from increasing the **speed of improvement** and **lowering the cost of quality** to **driving skills shifts**. Quality professionals need to learn, and incorporate these developments into their workflows to stay competitive.

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REFERENCES

<https://tulip.co/blog/quality/how-to-reduce-cost-of-quality-with-industry-4-0/>