

## 5.3 Lean production and quality management (HL)

# Checklist

## What you should know

By the end of this subtopic, you should be able to:

- define the following terms: (AO1)
  - lean production
  - waste
  - efficiency
  - continuous improvement (kaizen)
  - just-in-time (JIT)
  - cradle-to-cradle design/manufacturing
  - quality circle
  - benchmarking
  - total quality management (TQM)
  - Gantt chart
  - critical path analysis
- describe the following features of lean production: (AO1)
  - less waste
  - greater efficiency
- explain the following features of lean production: (AO2)
  - continuous improvement (kaizen)
  - just-in-time (JIT)
- explain the features of cradle-to-cradle design and manufacturing (AO2)
- distinguish between quality control and quality assurance (AO2)
- explain the following methods of managing quality: (AO2)
  - quality circle
  - benchmarking
  - total quality management (TQM)
- discuss the impact of lean production and total quality management (TQM) on an organisation (AO3)
- explain the importance of national and international quality standards (AO2)
- apply a Gantt chart in a given context (AO2) (HL)

- prepare and analyse a critical path (network) diagram in a given context (AO4, AO2) (HL)