

Pathway Rotational Program

Body of Knowledge: Operations

Engineering fundamentals

Basic understanding of product/design engineering, manufacturing engineering, including multi-layered bills of materials (BOMs), routers, engineering systems, engineering changes and implementation.

Process flow fundamentals

Understanding the flow from order to delivery in a manufacturing environment including, routing, standard time, scheduling techniques, capacity management and queuing and simulation.

Supply chain management

Understanding of supply chain functions including planning and purchasing functions, ERP and supply chain management tools including vendor management tools and metrics.

Standard costing

Understand elements of standard costing and variances.

Quality

Know all the elements of quality assurance and quality control including ISO and API, document control, quality tools including non-conformances, corrective and preventive actions, lean manufacturing and process improvement.

Health, safety and environment

Have a working knowledge of NOV Safety Standards.

Resource planning

Have a functional knowledge of MRP/ERP including backward scheduling, significance of dates, demand management and forecasting, distribution requirements planning and inventory.

Organizational navigation

Understand the various parts of the organization, how operations interfaces with them, and what they require from engineering.

