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.