

# Weekly Production and Workforce Planning Summary

```
{
  "DemandForecast": [
    {
      "Date": "2025-04-07",
      "SKU ID": "PEP-ORG-330C",
      "SKU Name": "Pepsi Original 330ml Can",
      "Forecasted Demand": 461
    },
    {
      "Date": "2025-04-14",
      "SKU ID": "PEP-ORG-330C",
      "SKU Name": "Pepsi Original 330ml Can",
      "Forecasted Demand": 467
    },
    {
      "Date": "2025-04-21",
      "SKU ID": "PEP-ORG-330C",
      "SKU Name": "Pepsi Original 330ml Can",
      "Forecasted Demand": 467
    },
    {
      "Date": "2025-04-28",
      "SKU ID": "MD-ORG-600B",
      "SKU Name": "Mountain Dew 600ml Bottle",
      "Forecasted Demand": 489
    },
    {
      "Date": "2025-05-05",
      "SKU ID": "MD-ORG-600B",
      "SKU Name": "Mountain Dew 600ml Bottle",
      "Forecasted Demand": 511
    },
    {
      "Date": "2025-05-12",
      "SKU ID": "MD-ORG-600B",
      "SKU Name": "Mountain Dew 600ml Bottle",
      "Forecasted Demand": 495
    }
  ],
  "EmployeeAllocation": [
    {
      "Date": "2025-04-07",
      "Employee ID": "EMP-201",
      "Name": "John Doe",
      "Assigned Machine": "MCH-101",
      "Role": "Machine Operator",
      "Shift": "Day",
      "Hours Assigned": 4
    },
    {
      "Date": "2025-04-07",
      "Employee ID": "EMP-202",
      "Name": "Jane Smith",
      "Assigned Machine": "MCH-101",
      "Role": "Quality Checker",
      "Shift": "Day",
      "Hours Assigned": 4
    },
    {
      "Date": "2025-04-07",
      "Employee ID": "EMP-203",
      "Name": "Mike Ross",
      "Assigned Machine": "MCH-102",
      "Role": "Machine Operator",
      "Shift": "Day",
      "Hours Assigned": 4
    },
    {
      "Date": "2025-04-07",
      "Employee ID": "EMP-204",
      "Name": "Emily Davis",
      "Assigned Machine": "MCH-102",
      "Role": "Quality Checker",
      "Shift": "Day",
      "Hours Assigned": 4
    }
  ],
  "MachineProduction": [
    {
      "Date": "2025-04-07",
      "Machine ID": "MCH-101",
      "SKU ID": "PEP-ORG-330C",
      "SKU Name": "Pepsi Original 330ml Can",
      "Forecasted Demand": 461,
      "Machine Capacity (units/hr)": 150,
      "Estimated Production Time (hrs)": 3.1,
      "Shift": "Day"
    },
    {
      "Date": "2025-04-07",
      "Machine ID": "MCH-102",
      "SKU ID": "MD-ORG-600B",
      "SKU Name": "Mountain Dew 600ml Bottle",
      "Forecasted Demand": 489,
      "Machine Capacity (units/hr)": 160,
      "Estimated Production Time (hrs)": 3.1,
      "Shift": "Day"
    }
  ]
}
```