

ERP LX Programs – Capacity Planning (CAP)

Maintenance Programs

Generally these are data entry programs in which you enter information into the database so it can be used by the computer system, as in Work Center Maintenance.

Numbered 100 – 199

**CAP100 – Work Center
Maintenance**

Transaction Programs

May be either on-line or batch processed. These programs manipulate data entered to them. For example, CAP500 is an on-line ERP LX program for generating rough cut capacity requirements.

Numbered 500 – 699

**CAP500 – Generate Rough
Cut Capacity
Requirements**

**CAP600 – Generate Detail
Capacity Requirements**

Inquiry Programs

These are always on-line programs that access information files. Use these programs instead of reports when you need to access limited records in the file.

Numbered 300 – 399

**CAP300 – Work Center Load
Inquiry**

Report Programs

Reports are on-line or batch programs that print the data from the files in report form. Information may be sorted for logical sequence or limited report parameters.

Numbered 200 – 299

CAP250 – Input / Output Report

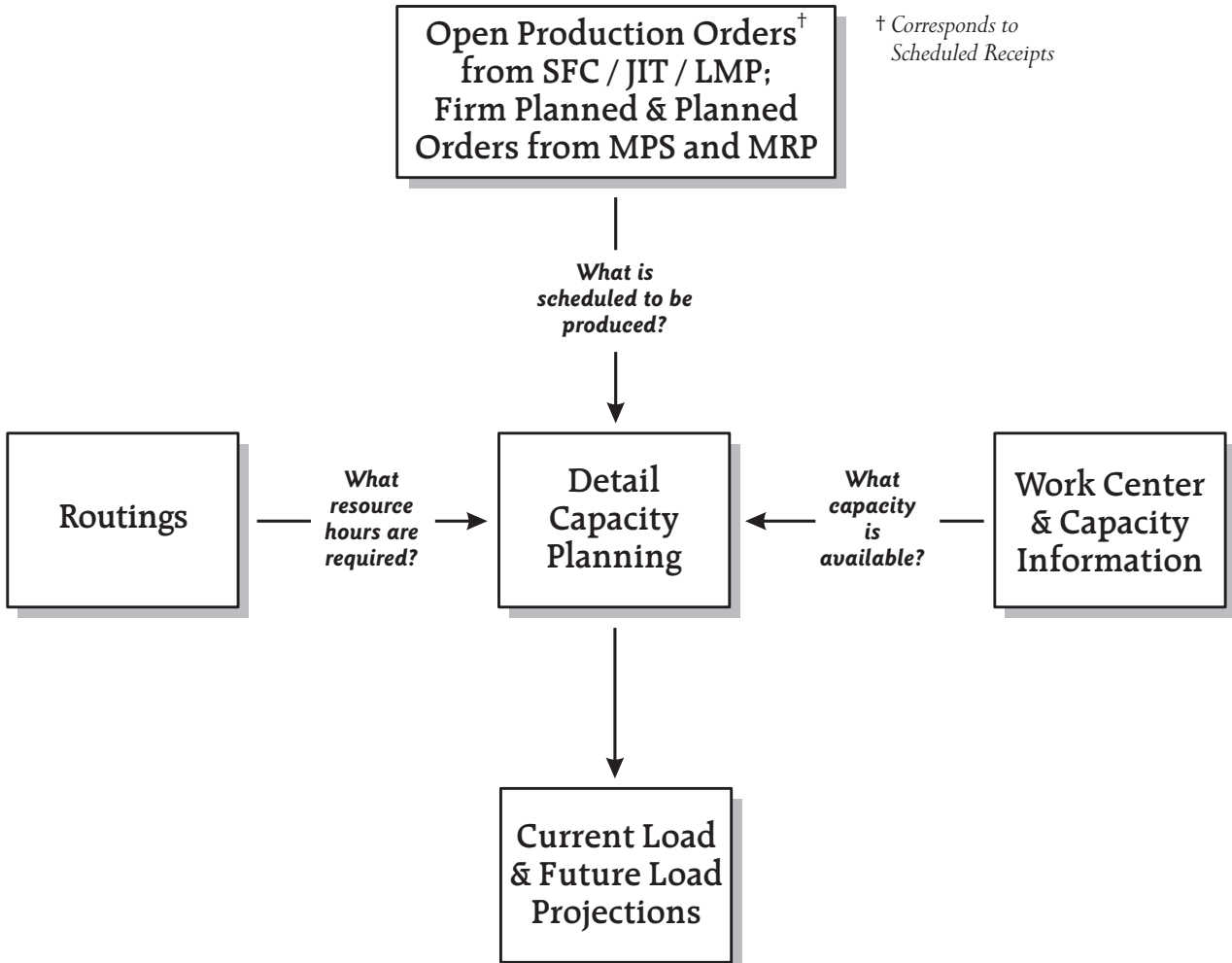
Period Close Programs

These programs are batch-type programs that process data at the end of the month or year.

Numbered 900 – 999

CAP900 – Capacity Week End Close

Detail Capacity Planning

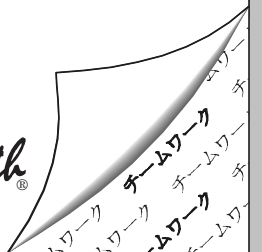


Detail capacity planning reviews current and planned load for all work centers.

- ∇ Uses item routings (primary and alternative)
 - ◇ All manufactured items
 - ◇ All work centers
- ∇ Material requirements planning tool
 - ◇ Smooth the flow of planned production
 - ◇ Performed after MPS and MRP generations

Capacity as a Planning Tool

Planning Level	Planning Function	Length of Planning Horizon
Top Management Planning	Production Plan	Long Range 1–5 years
Operations Management Planning	MPS MRP CRP	Medium Range 1–6 months
Operations Management Execution	Shop Floor Control Lean Manufacturing Process JIT/Repetitive Process	Short Range weeks / days / hours



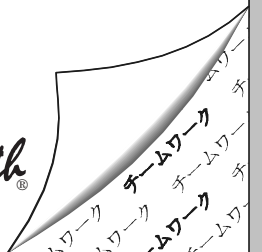
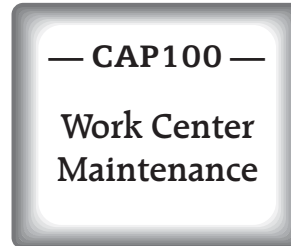
Work Centers: Key Program Features

Work Center Maintenance CAP100

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Significant Fields Affecting Costing

- ∇ Standard cost buckets 1–8
 - ◇ relates a standard cost bucket 1–999 for rates 1–8 for cost updates
- ∇ Actual cost buckets 1–8
 - ◇ relates an actual cost bucket 1–999 for rates 1–8 for cost updates
- ∇ Frozen cost buckets 1–8
 - ◇ relates a frozen cost bucket 1–999 for rates 1–8 for cost updates
- ∇ Going-to cost buckets 1–8
 - ◇ relates a going-to cost bucket 1–999 for rates 1–8 for cost updates
- ∇ Outside operation 1–8 (*or blank*)
 - ◇ indicates which rate is an outside operation



Routing – Basis Codes

Basis Codes

Blank...Hours Per Unit

FHours Per Fixed Duration Quantity

HHours Per Standard Batch Size

PPieces Per Hour

1Hours Per 10 Units

2Hours Per 100 Units

3Hours Per 1,000 Units

4Hours Per 10,000 Units

5Hours Per 100,000 Units

6Hours Per 1,000,000 Units

■ *Note: For outside operations, set the “Inside / Outside Operation” field to “1,” and specify the cost in the “Outside Cost” field.*

▽ Represent *time* in production

▽ Interpret machine and run hours as production rates

Example

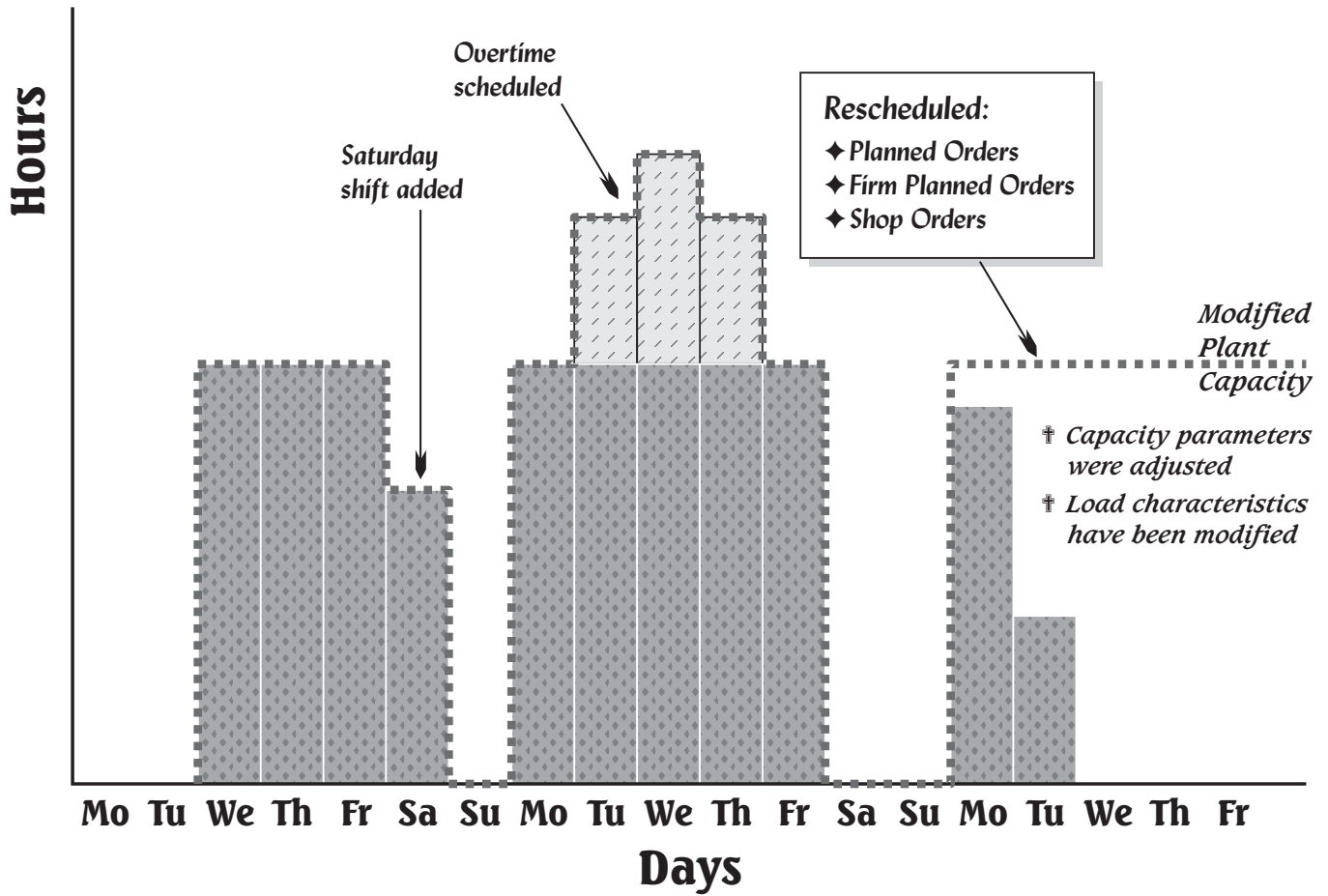
▽ Basis code of 2 (hours per 100 units)

▽ Run hours of .75

▽ Production rate = 100 units are produced in .75 hours (or 45 minutes)

Finite Forward Scheduling

Finite Forward Scheduled Loading



- ▽ Corrective action taken to increase available capacity
- ▽ Minimizes order rescheduling
- ▽ Modified using Finite Forward Scheduling (MRP640)



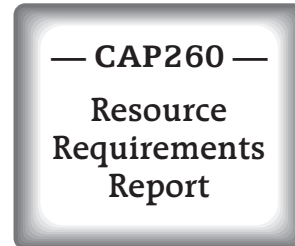
Unbeaten Path®

Reports and Listings: Key Program Features

Resource Requirements Report CAP260

This Resource Requirements Report (CAP260D) generates five capacity reports:

- * Labor Resource Requirements
- * Machine Resource Requirements
- * Setup Resource Requirements
- * Setup and Labor Resource Requirements
- * Setup and Machine Resource Requirements



These five separate reports contain similar information in various formats to allow you to view the data from different perspectives. They all provide separate labor totals for each department. The reports show detailed labor requirements at the work center level by time frame.

Parameters

- ∇ Department
 - ◇ select the department or range of departments you wish to print
- ∇ Resource selection
 - ◇ specify a code to indicate the resource requirements you want to view. Choices are one of the following:
 - 1 machine
 - 2 setup
 - 3 setup and machine
 - 4 labor
 - 5 setup and labor

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