Course Duration
The duration is 4 days.

Course Goal
The goal of the course is to teach the student the basic language fundamentals and the tools necessary to prepare, load, and troubleshoot batch sequences in the Harmony Controllers (MFP, BRC, HAC).

Student Profile
This training is targeted to anyone responsible for Process Control using the batch process, automating production sequences, troubleshooting sequences, or evaluating automation options.

Prerequisites and Recommendations
Students should have a familiarity with their batch processes, controllers and the Microsoft Windows operating system.

Familiarity with programming in another language or languages is highly recommended but not required. The Infi90Open Troubleshooting course and the Infi90 Configurations Strategies courses are suggested supplemental background for the Batch 90 Language course.

Description
This course is for those who are or will be working with Batch Data Manager (BDM) implementing process control in batch, automating sequences in production and startup, troubleshooting and maintaining existing sequences, and evaluating automation options. The course covers the language fundamentals and the tools to prepare, load and troubleshoot batch sequences in the Harmony Controllers (MFP, BRC, HAC).

Course Objectives
Upon completion of this course, students will be able to:

- Write BATCH 90 programming code
- Create product recipes
- Load the MFP with all files needed to run Batch 90
- Manage the BATCH 90 files
- Modify existing programs and recipes
- Troubleshoot BATCH 90 program execution
- Automate multiple units in a production train together
Course Calendar – M302 Batch Data Manager

<table>
<thead>
<tr>
<th>Day 1</th>
<th>Day 2</th>
<th>Day 3</th>
<th>Day 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Introductions</td>
<td>• Program Structure</td>
<td>• Download to module</td>
<td>• Troubleshooting</td>
</tr>
<tr>
<td>• Infi90 System Overview</td>
<td>• Function Block Support</td>
<td>• Dynamic Debugger</td>
<td></td>
</tr>
<tr>
<td>• BATCH and the MFP or BRC</td>
<td>• BDM</td>
<td>• Lab</td>
<td></td>
</tr>
<tr>
<td>• Batch Program</td>
<td>• B90 Editor</td>
<td>• Convert DOS batch BDM 5/6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Advanced Topics</td>
<td></td>
</tr>
</tbody>
</table>