

# AIX UNIX Shell and Command Tools

---

<b>Duration</b>	5 days.
<b>Participants</b>	Technical AIX users who need broad familiarity with the resources already available in the AIX system, in order to quickly accomplish daily tasks without unnecessary programming.
<b>Objectives</b>	<p>Upon successful completion of this course you will be able to:</p> <ul style="list-style-type: none"><li>• Use shell features, as well as built-in AIX commands and their options, to accomplish daily data processing tasks with a minimum of programming effort.</li></ul>
<b>Overview</b>	<p>This advanced course begins with a quick review of twelve commands. AIX command I/O is covered in-depth. Then, the course presents twenty file-processing commands with their most commonly-used options. Half-a-day is spent on sed, the stream editor, and one-and-a-half days on awk, the pattern scanning and processing language. The use of regular expressions with these commands is covered in depth.</p> <p>At the end of the course, a section on shell tools reviews user-defined variables, positional parameters, command substitution, and quoting. This section offers a series of challenging exercises that review the entire course. As an alternative, if a student has a suitable real problem that he or she is working on at the moment that can be shared with the class, the class may use that as a case study.</p>
<b>Prerequisites</b>	Working knowledge of basic AIX commands such as grep, ls -l, cd, rm, cp, mv, cat, and who; ability to use an editor to create and modify a small file; and ability to use redirection, pipes, and filename generation wildcards. Previous attendance at an introductory course on AIX is recommended.
<b>Format</b>	Lecture and discussion (50%) with command line and programming exercises (50%).
<b>Topic Outline</b>	<p><b>Command I/O</b></p> <p>Typical patterns of I/O Using - to represent the standard input</p> <p><b>Regular Expressions (in detail)</b></p> <p><b>File Processing Commands</b></p> <p>sed awk tee grep egrep fgrep wc sort nl</p>

## AIX Shell and Command Tools *(continued)*

---

### Topic Outline

#### File Processing Commands *(continued)*

- tr
- cut
- paste
- tail
- uniq
- split
- csplit
- comm
- cmp
- diff

#### Programming

- Positional Parameters
- User-defined Variables
- If, Test, While, Shift, Exit, Break, Continue, Export
- Command Substitution
- Shell quoting mechanisms