Power Systems Academic Initiative (PSAI)

Program Overview
April 2018
**Teaching IBM Power Skills for 21 Years**

**Historical Perspective**

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>1996</td>
<td>AS/400 Partners in Education</td>
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<tr>
<td>2002</td>
<td>IBM Scholars Program: iSeries</td>
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<tr>
<td>2004</td>
<td>IBM Academic Initiative: iSeries zSeries</td>
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<tr>
<td>2008</td>
<td>Power Systems announced</td>
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<tr>
<td>2009</td>
<td>Power Systems Academic Initiative (PSAI)</td>
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<tr>
<td>2012</td>
<td>PSAI Mission Transferred to STG Training</td>
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<tr>
<td>2018</td>
<td>379% Growth (since 2012)</td>
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**Mission:** To help provide market-ready Power skills to our clients by working with colleges and universities worldwide
**PSAI Snapshot**

Open to colleges and universities worldwide with 647 participating schools representing 68 countries.

- **Educate:** Increase awareness and education of students about Power Systems technology and operating systems -- IBM i, AIX, and Linux.

- **Equip:** Provide educators with materials, technology, and resources to teach Power Systems technology, skills, and business applications.

- **Connect:** Help educators establish connections with their local IBM Power Systems business community to encourage collaboration.

- **Employ:** Facilitate linkage between graduates and clients for internships and jobs that require Power Systems skills. Provide access to Power Systems Job Board.

*Participating means a school is: teaching IBM Power in a classroom or online, doing research on Power, using our academic cloud for homework/classwork/projects, downloading courses, and/or developing a course/program for an upcoming semester.*
Participating Schools by Geography

<table>
<thead>
<tr>
<th>ANZ</th>
<th>ASEAN</th>
<th>CEE</th>
<th>Europe</th>
<th>GCG</th>
<th>India</th>
<th>Japan</th>
<th>LA</th>
<th>MEA</th>
<th>NA</th>
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<tbody>
<tr>
<td>6</td>
<td>27</td>
<td>61</td>
<td>121</td>
<td>37</td>
<td>29</td>
<td>2</td>
<td>74</td>
<td>31</td>
<td>258</td>
</tr>
</tbody>
</table>
Available PSAI Materials and Resources

**IBM Courseware**
- IBM i, Linux, AIX
- Zend PHP (5)
- Red Hat (5)
- SUSE (1)

**IBM Educational Resources**
- Technical Library
- Redbooks
- IBM Subject Matter Experts

* Provided at No Charge *

**Job Board**
- Internships
- Entry-Level Jobs
- Experienced Professional

**Academic Cloud**
- Power Systems (7+ and 8)
- Full-Time Availability; Help Desk
- Teaching and/or Research
Power Systems Academic Cloud Environment

- Over 21 years of history

- Enormous PSAI growth requires better infrastructure

- Enhanced power, security, and infrastructure

- Upgraded hardware to Power 7+ and Power 8

- DS8700 and DS8800 storage in place

- Over 250 colleges and universities using our academic cloud today

Order the academic cloud today!
Job Board:
15,789 Visitors
powersystemsjobs.com

Below you will find a list of computer-related technology jobs available today in business, health care, government, and other organizations that are looking for skills to satisfy their Information Technology needs. Each posting clearly defines the opportunity, requirements and preferred contact information. Our IBM Power Systems Academic Initiative staff updates this page daily.

Job Seekers

IBM Clients, Business Partners, and other employers

We encourage you to list your IBM Power Systems/IT-related job opportunities here. The IBM Power System Academic Initiative membership in North America includes over 90 colleges and universities teaching IBM i, AIX and Linux skills. Students learning these skills are eager to reach out to you and become part of your business team. Job posting is very simple - no registration, no membership, no password, and no fees. Simply contact our IBM Power Systems Academic Initiative staff and we'll do all the work involved.

Power Systems Academic Initiative homepage

Power Systems Job Board for the Experienced Professional (Global)
Harness the Power of IBM

Get easy access to the tools you need to develop the next great thing. Enjoy powerful technical and strategic resources from IBM.

Jump right in with cloud access to powerful services and the most prominent open-source computer technologies, or take advantage of hands-on resources that will teach you about data and analytics, Internet of Things, and security.
Sample: AIX Courses (23)
* Beginner, Intermediate and Advanced Courses

<table>
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<tr>
<th>Cloud</th>
<th>Commerce</th>
<th>Data &amp; Analytics</th>
<th>IoT</th>
<th>Mobile</th>
<th>Security</th>
<th>Power Systems</th>
<th>z Systems</th>
<th>Watson</th>
<th>Additional Resources</th>
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<td></td>
<td></td>
<td>AIX</td>
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</table>

**Order AIX Courses today!**

Do you have Power skills and are looking for an entry-level job in North America? Check out a list of opportunities [here](#).
Sample: IBM i Courses (26)
* Beginner, Intermediate and Advanced Courses

DB2 for i: DB Coding and Implementation Using DDS and CL. Commands (CL62)
Introduction to IBM i for New Users (OE98GCANN)
PHP I: Foundations (PHPIBM3)
PHP I: Foundations for IBM i (PHPIBM1)
PHP II: Higher Structures (PHPIBM2)
Programming in ILE RPG (RPGIBM1)

RPG IV Programming Fundamentals Workshop for IBM i (AS06)
System Operator Workshop for IBM i (AS24)
Zend Framework 2: Advanced Concepts (PHPIBM5)
Zend Framework 2: Fundamentals (PHPIBM4)

Do you have Power skills and are looking for an entry-level job in North America? Check out a list of opportunities here.

Order IBM i Courses today!
Sample: Linux on Power Courses (19)
* Beginner, Intermediate and Advanced Courses

<table>
<thead>
<tr>
<th>Essentials of PowerVM (LX024)</th>
<th>Linux Basics and Installation (LX02G8)</th>
<th>Power Systems Running Linux: Red Hat Administration (PowerVM Base) v1.0 (LX031)</th>
<th>Power Systems Running Linux: SUSE Linux Administration (PowerVM Base) (LX051)</th>
<th>Power Systems Running Linux: SUSE Storage Management (PowerVM base) v1.0 (LX052)</th>
<th>Power Systems Running Linux: Ubuntu Server Administration (PowerVM based) v1.0 (LX041)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Systems Running Linux: Red Hat System Administration I</td>
<td>Red Hat System Administration II</td>
<td>SUSE Linux Enterprise Server 12 Administration (3124)</td>
<td>I don’t see courseware I used to have available to me</td>
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</table>

Do you have Power skills and are looking for an entry-level job in North America? Check out a list of opportunities [here](#).

Order [Linux Courses today!](#)
# PSAI Curriculum – At a Glance

## AIX

**Beginner**
- AIX Basics (AN10)

**Intermediate**
- AIX – IBM Integration Bus V10 System Administration
- AIX Jumpstart for Unix Professionals (AN14)
- AIX Network Installation Management Concepts and Configuration (AN22)
- AIX SAN Management I: Administration (AN49)
- Korn and Bash Shell Programming (AN202)
- Power Systems for AIX I: LPAR Configuration and Planning (AN11)
- Power Systems for AIX II: Implementation and Administration (AN12GANN)
- TCP/IP for AIX Administrators (AN21)

**Advanced**
- Advanced Tools for AIX Performance Analysis (AN2)
- AIX Workload Partitions: Configuration and Management (AN17)
- Implementing AIX Security Features (AN57)
- Implementing PowerVM Live Partition Mobility (AN33G2ANN)
- Power Systems for AIX – PowerVM I: Implementing Virtualization (AN30G6ANN)
- Power Systems for AIX – Virtualization II: Advanced PowerVM and Performance (AN31)
- Power Systems for AIX – Virtualization III: Implementing Shared Storage Pools
- Power Systems for AIX III: Advanced Administration and Problem Determination (AN15)
- Power Systems for AIX IV: Performance Management (AN51GANN)
- PowerHA SystemMirror 7 Advanced Configurations (AN62)
- PowerHA SystemMirror 7 Customization and Basic Administration (AN68)
- PowerHA SystemMirror 7 Planning and Implementation (AN67)
- PowerHA SystemMirror 7 Planning, Implementation, Customization and Basic Administration (AN61)
- PowerHA SystemMirror 7 Problem Determination (AN66)

## IBM i

**Beginner**
- DB2 for i: DB Coding and Implementation Using DDS and CL Commands (OL62)
- Introduction to IBM I for New Users (OE98GCANN)
- PHP Fundamentals I (PHPIBM3)
- PHP Fundamentals II (PHPIBM2)
- PHP I: Foundations for IBM I (PHPIBM1)
- Programming in ILE RPG (RPGIBM1)
- RPG IV Programming Fundamentals Workshop for IBM I (AS06)
- System Operator Workshop for IBM I (AS24)
- Zend Framework 2: Advanced Concepts (PHPIBM5)
- Zend Framework Fundamentals I (PHPIBM4)

**Intermediate**
- Accessing the IBM I Database Using SQL (OL37)
- Advanced System Operator Workshop for IBM I (AS27GA)
- BRMS for IBM I (AS28GEANN)
- Control Language Programming Workshop for IBM I (OL20)
- Developing IBM I Applications Using SQL (OL38)
- Hardware Management Console (HMC) for IBM I (OL52G6ANN)
- IBM I Performance Tuning – I: Performance Tools and Basic Tuning (OL23GANN)
- IBM I Performance Tuning – II: Advanced Analysis and Capacity Tuning (OL66G3ANN)
- IBM I Security Concepts and Implementation (OL50)
- IBM I System Administration (OL19)
- IBM I Technical Introduction (OL4A)
- IBM Integration Bus V10 System Administration
- IBM PowerHA for I, Clustering, and IASP Implementation (AS54G)
- PowerVM on IBM I – I: Implementing Virtualization and LPAR (AS5E)
- PowerVM on IBM I – II: Advanced Topics and Performance (AS5FG3ANN)

**Advanced**
- RPG IV Programming Advanced Workshop for IBM I (AS10)
Linux

**Beginner**
- Essentials of PowerVM (LX024)
- Linux Basics and Installation (LX02G8)
- Power Systems Running Linux: Red Hat Administration (PowerVM Base) (LX031)
- Power Systems Running Linux: SUSE Storage Management (PowerVM Base) (LX052)
- Power Systems Running Linux: Ubuntu Server Administration (PowerVM Based) (LX041)
- Power Systems Running Linux: Ubuntu Server Storage Mgmt (PowerVM Base) (LX042)
- Power Systems Running Linux: SUSE Linux Administration (PowerVM Base) (LX051)
- Red Hat System Administration I
- Red Hat System Administration II
- SUSE Linux Enterprise Server 12 Administration (3124)

**Intermediate**
- Linux Jumpstart for UNIX System Administrators (LX15G9)
- Linux System Administration I: Implementation (LX03)
- Power Systems Running Linux: Performance Management (PowerVM Base) (LX034)
- Power Systems Running Linux: Red Hat Storage Management (PowerVM Base) (LX032)
- Red Hat JBoss Enterprise Application Development I
- Red Hat System Administration III

**Advanced**
- Red Hat OpenStack Administration I
1. **PHP I Foundations for IBM i** -- Designed specifically for IBM i professionals, this course provides RPG/ILE programmers with a solid foundation in the PHP language. IBM Power Systems developers and administrators will receive an overview of the PHP language and main concepts, allowing them to drive application modernization and bring the power of web and mobile development to the IBM i platform.

2. **PHP Fundamentals I** -- Designed to provide beginner programmers with a solid foundation in the PHP language, this course guides students through the basics of PHP with an experiential approach, filled with numerous examples and hands-on exercises, including substantial practice in coding parts of a fully functional application.

3. **PHP Fundamentals II** -- This course is designed to teach intermediate PHP developers the higher level concepts, including a detailed introduction to object oriented programming. Students will be able to use advanced language and web development methodologies to create more advanced web-based PHP and mobile back-end applications.

4. **Zend Framework Fundamentals I** -- This course is designed for intermediate to advanced PHP developers who have a solid foundation in the PHP language and object-oriented programming. Students will learn how to leverage the power of Zend Framework to build well-designed, scalable, and maintainable web applications quickly and competently.

5. **Zend Framework 2: Advanced Concepts** -- Designed for proficient PHP programmers with practical experience and familiarity with Zend Framework 2 (ZF2), this course perfects students’ skill sets and allows them to master Zend Framework 2.
Red Hat Enterprise Linux Courseware

1. **Red Hat System Administration I** -- Relates to Red Hat Enterprise Linux 7, and is designed for IT professionals without previous Linux administration experience. The course focuses on providing students with Linux administration "survival skills" by focusing on core administration tasks.

2. **Red Hat System Administration II** -- Specifically designed for students who have completed Red Hat System Administration I, and focuses on key tasks needed to become a full-time Linux® administrator.

3. **Red Hat System Administration III** -- Related to Red Hat Enterprise Linux, 7, and designed for experienced Linux system administrators who hold a Red Hat Certified System Administrator (RHCSA) certification or equivalent skills and who want to broaden their ability to administer Linux systems at an enterprise level.

4. **Red Hat JBoss Enterprise Application Development I** -- Learn how to create, test, and maintain Java EE-compliant applications from start to finish using the Eclipse-based Red Hat JBoss Developer Studio.

5. **Red Hat OpenStack Administration I** -- Designed for system administrators who are intending to implement a cloud computing environment using Red Hat OpenStack Platform. This course is based on Red Hat OpenStack Platform 8.
In this course, you are introduced to the basic knowledge and skills necessary to perform fundamental SUSE Linux Enterprise 12 operating system tasks. It is also ideal for those who want to begin preparing for the SUSE Certified Linux Professional 12 Exam or the Linux Professional Institute LPIC-1 exams. The following topics are covered in this course:

- What Is SUSE Linux Enterprise?
- Work With the Command Line
- System Initialization
- Process Management
- Identity and Security
- Manage Software
- Network Management
- Storage Management
- Administration and Monitoring
- Hardware Management
For More Information:  ibm.com/university/power

**IBM Power Systems Academic Initiative**

*Educating the next Power Systems generation!*

For over 20 years, the IBM Power Systems Academic Initiative (PSAI) has equipped educators with materials, technology, and resources to teach Power Systems skills that are needed by our clients worldwide. These resources include IBM courses, our Power Systems Academic Cloud, and entry-level and experienced professional job boards. Our PSAI materials can be easily integrated into any curriculum or course of study to teach a variety of concepts. The PSAI has enabled colleges and universities to successfully enhance their computer science, information systems, engineering and business programs, resulting in students who can compete in the job market of any industry.

All PSAI materials and resources are available to members at no charge!

Learn More

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**PSAI job boards**

- Entry-level/internships (North America)
- Experienced professionals (Global)

**Explore more**

- Previously featured in the spotlight
- Access our Power Systems Academic Cloud
- Download software
- Download courses
- Linux on Power Developer Portal

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**in the spotlight**

PHP course offerings in high demand through PSAI
Power Systems Academic Initiative soars to 550 schools

Spread the word: IBM Power Systems Academic Initiative reaches nearly 600 schools worldwide

ARMONK, N.Y. - 06 May 2017: The IBM (NYSE: IBM) Power Systems Academic Initiative recently reached a major milestone with nearly 600 participating schools now in the program.

The PSAI is an innovative flexible program designed to assist colleges and universities in the education of students in Power Systems technologies and concepts. The program offers courses and high school faculty a variety of educational materials and resources to expand and enhance their curricula. Best of all, there are no costs associated with participating in the program.

The PSAI has witnessed more than 300 percent growth in the number of member schools over the last four years alone. PSAI’s 600 schools span 67 countries across six continents. This growth will provide IBM clients around the world with a broad range of qualified graduates with Power Systems skills.

Academic Initiative Live!

Published: October 26, 2015

by Dan Burger

The day will come. You’ll be better off if you start preparing. Reacting to skills lost through retirement or other avenues plan for. Reacting to skills lost through retirement or other avenues plan for. Reacting to skills lost through retirement or other avenues plan for.
Contact Information

- Homepage: www.ibm.com/university/power

- Job Board: powersystemsjobs.com

- Power Systems OnTheHub
  - AIX Courses
  - IBM i Courses
  - Linux Courses
  - IBM Power Systems Academic Cloud

- PSAI email: powerskills@us.ibm.com