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| **Minor Award Name** | Operating Systems |
| **Minor Award Code** | 5N2928 |
| **Level** | 5 |

**Suggested resources to support delivery:**

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| --- | --- | --- | --- | --- |
| **Theme/Topic** | **Type** | **Relevance** | **Author/Source** | **Web Link** |
| Capabilities and characteristics of operating systems | Website | Windows 7 system requirements | Microsoft / windows.microsoft.com | <http://windows.microsoft.com/en-IE/windows7/products/system-requirements> |
|  | Website | Windows 8 system requirements | Matt Egan / pcadvisor.co.uk | <http://www.pcadvisor.co.uk/feature/windows/windows-8-system-requirements-3358892/> |
|  | Website | Windows 10 – will  your system run it | Adrian Kingsley-Hughes / zdnet.com | <http://www.zdnet.com/article/windows-10-will-your-pc-run-it/> |
|  | Online Document | Operating System Tutorial | tutorialspoint.com | <http://www.tutorialspoint.com/operating_system/operating_system_tutorial.pdf> |
|  | Online Document | Brief history of Operating Systems | eecs.harvard.edu | <http://www.eecs.harvard.edu/~margo/cs161/videos/history-auto.pdf> |
|  | YouTube Video | The History of Operating Systems | Computingforever.com / youtube.com | <https://www.youtube.com/watch?v=BTQ6HtCkSBQ> |
|  | YouTube Video | Operating Systems Basics | Brian Will / youtube.com | <https://www.youtube.com/watch?v=9GDX-IyZ_C8> |
| Concepts and theory of operating systems | Website | The Elements of an Operating System | David Gallie / ezinearticles.com | <http://ezinearticles.com/?The-Elements-of-an-Operating-System&id=2575762> |
|  | Online Document | Operating System Memory Management pdf | Jerry Breecher / http://web.cs.wpi.edu/ | <http://web.cs.wpi.edu/~cs3013/c07/lectures/Section08-Memory_Management.pdf> |
|  | Online Document | Operating System Input/Output | Jerry Breecher / http://web.cs.wpi.edu/ | <http://web.cs.wpi.edu/~cs3013/c07/lectures/Section12-IO_Systems.pdf> |
|  | Online Document | Operating Systems Filing Systems | Jerry Breecher / http://web.cs.wpi.edu/ | <http://web.cs.wpi.edu/~cs3013/c07/lectures/Section10-File_Systems.pdf> |
| Functionality of system calls in operating systems | Website | Understanding the Windows I/O System | [Mark Russinovich](https://www.microsoftpressstore.com/authors/bio.aspx?a=825020e1-657d-4572-9f9e-660a36c3d8bd), [Alex Ionescu](https://www.microsoftpressstore.com/authors/bio.aspx?a=07cda0ad-d0ed-4ccc-a1c9-c25f54fa8c74), [David A. Solomon](https://www.microsoftpressstore.com/authors/bio.aspx?a=aaef19d1-f5a1-412a-992f-9f8b46348611) / microsoftpressstore.com | <https://www.microsoftpressstore.com/articles/article.aspx?p=2201309&seqNum=3> |
|  | Website | Learn how to use the Windows 7 Resource Monitor for effective troubleshooting | Greg Shultz / techrepublic.com | <http://www.techrepublic.com/blog/windows-and-office/learn-how-to-use-the-windows-7-resource-monitor-for-effective-troubleshooting/> |
|  | Website | [How do you monitor I/O on individual devices in windows?](http://superuser.com/questions/286670/how-do-you-monitor-i-o-on-individual-devices-in-windows) | Superuser.com | <http://superuser.com/questions/286670/how-do-you-monitor-i-o-on-individual-devices-in-windows> |
|  | Website | Windows 7 File Structure | free-computer-tutorials.net | <http://www.free-computer-tutorials.net/windows-7-file-structure.html> |
| Operating Systems Functions and Characteristics | Website | How to manage users in Windows 7 | Michael Scalisi / pcworld.com | <http://www.pcworld.com/article/171933/manage_users_in_windows_7.html> |
|  | Online Document | Windows 7 New Features & Functions | providence.edu | <http://www.providence.edu/it/Documents/Windows7.pdf> |
|  | Website | What’s the difference between Windows 7 and 8 | Matt Egan / pcadvisor.co.uk | <http://www.pcadvisor.co.uk/buying-advice/windows/windows-7-vs-windows-8-whats-difference-between-windows-8-windows-7-3368956/> |
|  | Website | Windows 10 vs Windows 8 vs Windows 7 | Gordon Kelly / forbes.com | <http://www.forbes.com/sites/gordonkelly/2015/08/02/windows-10-vs-windows-8-vs-windows-7-whats-the-difference/> |
|  | Website | Investigate Memory usage with Windows 7 Resource Manager | Greg Shultz / techrepublic.com | <http://www.techrepublic.com/blog/windows-and-office/investigate-memory-usage-with-windows-7-resource-monitor/> |
|  | Website | Using Windows 7 Task Manager | Gary Olsen / http://searchenterprisedesktop.techtarget.com/ | <http://searchenterprisedesktop.techtarget.com/tip/Using-Windows-7-Task-Manager-features-for-Windows-memory-management> |
|  | Website | Comparison between Windows 7 and Windows 8 Memory Management System | askvg.com | <http://www.askvg.com/comparison-between-windows-7-and-windows-8-memory-management-system/> |
| Operating System File Systems | Website | File System Explained | pctechguide.com | <https://www.pctechguide.com/hard-disks/file-systems-fat-fat8-fat16-fat32-and-ntfs-explained> |
|  | Website | Difference between NTFS and FAT File Systems | winxdvd.com | <http://www.winxdvd.com/answers/ntfs-vs-fat.htm> |
| Cloud-based Service Models | Website | Advantages & Disadvantages of Cloud Computing | Llias Tsagklis / javacodegeeks.com | <http://www.javacodegeeks.com/2013/04/advantages-and-disadvantages-of-cloud-computing-cloud-computing-pros-and-cons.html> |
|  | Website | 10 Benefits of Cloud Computing | verio.com | <http://www.verio.com/resource-center/articles/cloud-computing-benefits/> |
|  | Website | Cloud Computing Advantages and Disadvantages | cloudcomputinginsights.com | <http://www.cloudcomputinginsights.com/management/cloud-computing-advantages-and-disadvantages/?mode=featured> |
| Operating System Installation & Configuration | YouTube Video | How to partition a hard disk Win 7 YouTube | Andjers / youtube.com | <https://www.youtube.com/watch?v=q6_wwuBp0iI> |
|  | YouTube Video | How to partition a hard disk Win 8 YouTube | Wildlife / youtube.com | <https://www.youtube.com/watch?v=l4438pLxM7Y> |
|  | YouTube Video | How to install Windows 7 YouTube | [mujah209](https://www.youtube.com/channel/UCq-KBS95WM3jMzBZF-dpVpw) / youtube.com | <https://www.youtube.com/watch?v=pf408Rkc5IA> |
|  | YouTube Video | Windows 8 Installation& Configuration YouTube | [CareyHolzman](https://www.youtube.com/channel/UCmWNCO9wSjzOz1UV8jCvIHA) / youtube.com | <https://www.youtube.com/watch?v=tzI8xh5XXnw> |
|  | Website | How to dual boot Windows 7 & Windows 8 | Lance Whitney / computershopper.com | <http://www.computershopper.com/feature/guide-how-to-dual-boot-windows-8-and-windows-7> |
| Operating System Configuration and Update | Website | Command Line Interface Definition | Margaret Rouse / searchwindowsserver.techtarget.com / | <http://searchwindowsserver.techtarget.com/definition/command-line-interface-CLI> |
|  | Website | Windows 7 Command Line Tools and programs | searchwindowsserver.techtarget.com | <http://searchitchannel.techtarget.com/feature/Windows-7-command-line-tools-and-programs> |
|  | Website | How to use the window command line (dos) | computerhope.com | <http://www.computerhope.com/issues/chusedos.htm> |
|  | Website | Command Line Interfaces | bbc.co.uk | <http://www.bbc.co.uk/schools/gcsebitesize/ict/software/5userinterfacesrev1.shtml> |
| Operating System Security | Online Document | Security and Operating Systems | cs.columbia.edu | <https://www.cs.columbia.edu/~smb/classes/s06-4118/l25.pdf> |
|  | Online Document | Security Highlights of Windows 7 | nsa.gov | <https://www.nsa.gov/ia/_files/os/win7/win7_security_highlights.pdf> |
|  | Online Document | Secure Your Computer: Windows 7 & 8 | cmu.edu | <https://www.cmu.edu/computing/security/start/secure-windows.pdf> |
| Operating System System Utilities | Website | Introduction to Hardware Resources | Microsoft / msdn.microsoft.com | <https://msdn.microsoft.com/en-us/library/windows/hardware/ff544253(v=vs.85).aspx> |
|  | YouTube Video | Operating System Hardware Resources | Mike Murphy / youtube.com | <https://www.youtube.com/watch?v=2Z0yIguC5eU> |
|  | Website | System Information Tools in Windows 8 / 7 | thewindowsclub.com | <http://www.thewindowsclub.com/system-information-tool-msinfo32> |
|  | YouTube Video | Windows 7 Tutorial : How to access device manager | [Big Tek Tutorials](https://www.youtube.com/channel/UCGru3ij_Qr3Ha3m3SXrdj0w) / youtube.com | <https://www.youtube.com/watch?v=J6TZ3jgCjBQ> |
|  | YouTube Video | Windows 8 – How to open Device Manager | Jose Blesson / youtube.com | <https://www.youtube.com/watch?v=NUsjRgPvRP0> |

**Useful Organisations:**

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| **Name** | **Contact Information** |
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| **MOOCs (Massive Online Open Courses)** | |
| Introduction to Operating Systems | <https://www.udacity.com/wiki/ud923> |