|  |  |
| --- | --- |
| **Minor Award Name** | **Woodwork** |
| **Minor Award Code** | **3N0589** |
| **Level** | **3** |

**Suggested resources to support delivery:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Theme/Topic** | **Type** | **Relevance** | **Author/Source** | **Web Link** |
| Hand tools uses/ functions. | Web Page | Good short descriptive videos of what to look for when choosing traditional hand tools. Brief but relevant descriptions of hand tool uses and functions. | Joshua T. Farnsworth | <http://woodandshop.com/which-hand-tools-do-you-need-for-traditional-woodworking/> |
| Hand tools/ Power tools, uses/ functions | Web page | A very descriptive website which explains the use of various hand tools accompanied by illustrations. Also goes into detail on numerous woodworking processes. | Using-Tools.com | <http://www.using-tools.com> |
| Hand tools and power tools uses/ functions | Web Page | Comprehensive range of tools covered in very good detail. These include colourful animations and drawings. Matching worksheets are also available as a free PDG download. | V. Ryan | <http://www.technologystudent.com/equip1/equipex1.htm> |
| Power tools and machinery use | YouTube Channel | Very useful instructional videos on the band saw, jig saw and cordless drill. | Brittany Bailey | <https://www.youtube.com/watch?v=QREUYSeVG9g> |
| <https://www.youtube.com/watch?v=ZQkLrirWi3A> |
| <https://www.youtube.com/watch?v=GbRsVXoqIGo> |
| Router Safety | PDF File /Booklet | Useful document which outlines the different safety procedures which should be carried out when using the router. Sets of questions available relating to router safety. | Janice Burke | <http://www.alce.vt.edu/content/dam/alce_vt_edu/teacher-resources/lab-safety-resources/router.pdf> |
| Jigsaw safety | Video | Informative video which outlines the parts of the jigsaw, the setup and safety of the jigsaw. Demonstrates how to use the jigsaw correctly. | Fox High Shop | <https://www.youtube.com/watch?v=6DuLVRLnSd8> |
| Sander Safety | PDF File/ Booklet | Useful document which outlines the different safety procedures which should be carried out when using the sander. Also various sets of questions which can be handed out to students. | Janice Burke | <https://www.alce.vt.edu/content/dam/alce_vt_edu/teacher-resources/lab-safety-resources/beltdiscsander.pdf> |
| Tool Sharpening | Website | This site provides a detailed description of the principles behind sharpening blades; from the reasons behind honing, tools and equipment needed, moving the chisel on the stone etc. Well illustrated pictures and sketches accompanying the descriptions. | Antiquetools.com | <https://www.antiquetools.com/sharp/index.html> |
| Tool maintenance / Saws | Book | A book which describes various methods on maintaining hand tools and power tools. Very detailed procedures with animations and drawings. Only downside is lack of colour. | Cunningham & Holtrop | <http://wood.woodtools.nov.ru/books/woodshop_tool_main/woodshop_tool_main.pdf> |
| Tool Maintenance | Video | A practical video showing how to sharpen a chisel from grinder to stone. The video is easy to understand, clearly narrated and has excellent information for sharpening chisels. | Matthew Cremona | <https://www.youtube.com/watch?v=3QZtNnI7bA0> |
| Woodworking Joints | Article | A very useful article outlining 11 different joints and the theory behind them. The article has nice drawings/ pictures of each joint. | Woodworkers Guild of America/ Jim McCleary | <http://www.wwgoa.com/article/woodworking-joints-which-ones-should-you-use/> |
| Woodwork Joints | Video | Excellent video showing how to make accurate halving, mortice and tenon, mitre and finger joints. Although many of the processes use heavy machinery such as the table saw, the same principles can be applied using hand tools or lighter machinery alternatives for more capable students. | Laney Shaughnessy | <https://www.youtube.com/watch?v=zqXLYe783qw> |
| Woodwork Joints | PowerPoint Presentation | Excellent presentation detailing a comprehensive list of joints. The presentation has excellent supporting photos and plenty of information on joint uses, as well as advantages and disadvantages. | Gerard Ritchie | <https://learning.mccarthy.nsw.edu.au/pluginfile.php/8411/mod_folder/content/0/WOOD%20THEORY%20(PP)/TECH%20WOOD%20Topic%203.ppt?forcedownload=1> |
| Materials Characteristics | PowerPoint Presentation | Very detailed breakdown of the difference between hardwoods and softwoods including useful comparison tables. Heavy on detail, though lacking in a bit of colour. | David and Sarah Newsham | [www.bisnet.or.id/vle/mod/resource/view.php?id=8235](http://www.bisnet.or.id/vle/mod/resource/view.php?id=8235) |
| Materials Characteristics and Uses | Website | Very useful website covering a broad range of materials, from hardwoods and softwoods, to plastics and manufactured board. The site gives sufficient information for this level and accompanies this info with nice pictures. | Mr K. Cooper | <http://www.mr-dt.com/materials/main.htm> |
| Materials/ joining fixings/ surface finishes | PDF | A written document which covers various materials in detail that are relevant to this module. Also a brief description of various fixings and finishes. Well-presented sketches and also sets of questions which cover the three areas mentioned. | Chris Leach | <http://bconstructive.co.nz/sites/bconstructive.co.nz/files/24355%20Student%20resource%202016.pdf> |
| Finishes Characteristics and Uses | Article | Excellent detailed article with a very useful comparison table at the end. The article covers a wide variety of finishes, also clearly outlining each finishes pros and cons. | Wood Solutions | <http://www.woodsolutions.com.au/Articles/Resources/Timber-Finishes-Interior> |
| Finishes Characteristics and Uses | Video | An easy to understand, quick video outlining the basics of wood finishing. Detail is limited, however it is an excellent introductory video and very useful for students when researching a finish for their projects. | Fine Woodworking | <https://www.youtube.com/watch?v=4Cqn6iX1MLg> |
| Orthographic Projection/ Drawing | Web Page | Good introduction to orthographic projection including 1st angle and 3rd angle projection. Covers basics. Useful for when pupils are trying to interpret working drawings. | Eoin Mansfield | <http://www.practicalstudent.com/subjects/tg/projectionsystems/orthoprojection.shtml> |
| Orthographic Projection | Slideshow | Very good presentation outlining basic orthographic projection. Useful for when pupils are trying to interpret working drawings. | Presario Nyioq | <http://www.slideshare.net/nyioq/orthographic-projection> |
| Workplace safety/ Health and safety | PDF | A detailed pdf which outlines the different the principles of machinery H&S, Risk control, Guarding, PPE and other areas which relate to the workshop environment. | Office of Industrial Relations State of Queensland | <https://www.worksafe.qld.gov.au/__data/assets/pdf_file/0010/82783/guidetomachinery-equipmentsafety.pdf> |
| Maintaining blades | Web Page | An easy to navigate website which outlines the different procedures that should be undertaken when maintaining various types of blades. | Saxton Blades | [http://www.saxtonblades.co.uk/blog/how-to-properly-maintain-blades-and-power-tools/#\_Toc460252380](http://www.saxtonblades.co.uk/blog/how-to-properly-maintain-blades-and-power-tools/%23_Toc460252380) |
| Estimating Costs/ quantity | Website | This interactive website allows the user to meet different computerized customers to try and fulfil their needs by gathering specifications, estimating costs and quantities of timber needed for the job, establishing a work plan, creating a cutting list and selecting tools. There are two projects which the learner can choose to work on. A well-presented website with informative sketches. | Furnishing Toolbox | <https://www.dlsweb.rmit.edu.au/toolbox/custmadedesign/content/fset.htm> |
| Health and Safety Guidelines | PowerPoint | A very good PowerPoint presentation with loads of visual imagery highlighting the importance of health and safety throughout. Outlines various guidelines which should be undertaken when using different types of tools. There is a link to a quiz provided on the last slide of the PowerPoint. | OSHA Office of Training and Education | <https://www.google.ie/url?sa=t&rct=j&q=&esrc=s&source=web&cd=11&ved=0ahUKEwi2np7hx8zUAhVDL8AKHVCYD2o4ChAWCCswAA&url=https%3A%2F%2Fwww.uaf.edu%2Ffiles%2Fsafety%2Ftraining%2Fother_train%2FHand-and-Power-Tool-Safety-08.ppt&usg=AFQjCNHLLa_R98pdM7EboMDTKOSF5zfq3w> |
| Workshop and Tool Safety | Web Page | An excellent webpage with lots of resources for teachers of technology subjects which are free to download. These include safety posters, signage and PowerPoint presentations. The presentations include identifying safety signage meanings and hazards in the workshop. | T4 | <http://www.t4.ie/topics_health.htm> |
| Safety Signage | PDF File/ Booklet | A useful and literacy friendly booklet, the start of which deals with safety signage, and their meanings. Free to print in full colour. | National Adult Literacy Agency | <https://www.nala.ie/sites/default/files/publications/Steps%20to%20safety%20-%20module%20one%20-%20safety%20signs_1.pdf> |
| Power Tool Safety | PDF File | A list of generic rules for the safe use of all power tools. The rules are not specific to any one tool, but cover all the checks a user should adhere to before using any power tool. | Power Tool Institute | <http://www.powertoolinstitute.com/pti_pdfs/PTI_Teachers_Power_Tool_Safety_Rules.pdf> |
| All topics | Website | A great website which covers everything from videos, woodwork techniques, projects, magazines, blogs, turning and tools. Very easy to navigate and also has a glossary which covers various terminology. | [Jon Russelburg](http://www.popularwoodworking.com/author/jon-russelburg) | <http://www.popularwoodworking.com/tools/woodworking-glossary> |
| All topics | Website | This site covers nearly all areas, going into detail on joints, processes, finishes, materials etc. The site gives various tips on different processes such as sanding and finishing. There are also dozens of woodwork projects with accompanying plans and cutting lists. | Lee’s Wood Projects.com | <http://www.leeswoodprojects.com> |
| All topics | Website | Clear and well laid out website covering all topics on the course. | Woodwork Basics.com | <http://www.woodworkbasics.com/> |
| All topics | Website | A vast, excellent website including ‘how to’ videos and articles on everything from design to applying a finish. | The Taunton Press, Inc. | <http://www.finewoodworking.com/> |
| All topics | Website | A very detailed and informative website that covers most topics that relate to woodworking. | Fundamental of woodworking | <http://www.fundamentalsofwoodworking.com/> |
| All topics | Website | This site provides various blogs and videos uploaded by various woodworkers giving different tips on topics. There are also many ‘How to’ articles provided along with various downloads. | Tools for working wood | <http://www.toolsforworkingwood.com/store/> |
| All topics | Interactive Website | This site covers many areas such as calculating costs/ quantities, materials, interpreting drawings, customer service, tools and equipment and workplace documents. Great website for pupils to work on by themselves. | www.dlsweb.rmit.edu.au | <https://www.dlsweb.rmit.edu.au/toolbox/custmadedesign/content/lo/fset.htm> |
| All topics | Book | This book goes into great detail with traditional woodworking tools, power tools and machinery. | Brain Porter | <http://woodtools.nov.ru/books/carp_join/carp_join_1.pdf> |
| All topics | Book | Junior Certificate Materials Technology (Wood) book covering all topics relevant to Woodcraft. | Michael Cross | <http://www.edcodigital.ie/books/wood-materials-4th-edition/> |
| All topics | Book | A well-illustrated book which emphasises the design process, design portfolio and project work which relates to this module. | Bill Gaughran | <https://www.bookdepository.com/Wood-Technology-Bill-Gaughran/9780717125661> |
| All topics | YouTube Channel | A series of instructional videos covering a huge variety of woodworking related topics. Expertly shot and presented. | Marc Spagnuolo | <https://www.youtube.com/user/TheWoodWhisperer> |

**Useful Organisations:**

|  |  |
| --- | --- |
| **Name** | **Contact Information** |
| National Council for Curriculum and Assessment (NCCA) | [www.ncca.ie](http://www.ncca.ie) |
| Quality and Qualifications Ireland (QQI) | <http://www.qqi.ie/> |
| Further Education Support Service (FESS) | [www.fess.ie](http://www.fess.ie) |
| Health and Safety Authority | [www.hsa.ie](http://www.hsa.ie) |
| Techno Teachers Association | <http://www.technoteachers.ie/> |
| T4 | [www.t4.ie](http://www.t4.ie) |
| Studyclix | <https://www.studyclix.ie/> |

|  |  |
| --- | --- |
| **MOOCs (Massive Online Open Courses)** | |
| Free access to online courses  Search regularly for new courses and new start dates | <https://www.mooc-list.com/> |
| <https://www.instructables.com/> |
| <https://www.craftsy.com/woodworking/shop/free-woodworking-classes> |
| <http://www.sustainlife.org/> |
| <https://www.thisoldhouse.com> |