

Design & Technology

116 videos

CY (B)	A Design Project Produced in association with the Museum of Contemporary Art, this program looks at four innovative caravan designs, focusing on the design process. We look at the prototype caravans in detail, intervi	Year 1993	Rating E	Duration 00:31:26
	Advanced Technical Drawing This programme looks at:* Basic drawing systems.* Reference envelopes.* Circles in paraline and perspective. * Preparing technical drawings. * Traditional perspective (1 and 2 point).* Measuring point	1988	Е	01:37:35
	Animation in Multimedia The programme takes students through the elements of creating a successful animation. Beginning with the various methods of creating an animation, the program then explores the stages and aspects of a	2006	Е	00:28:52
	Auto Electrics Like all tasks, the more they are broken down into manageable parts, the more comprehension takes place. This programme takes each component that an auto electrician will be asked to install or repair	1990	Е	00:26:13
	Automotive Design: CAD-CAM Case Studies Series: View and Do: English Lesson Starters 1 This programme looks at two examples of innovative automotive design and features the use of CAD and CAM.	2002	Е	00:32:33
	Bicycles: Design, Manufacture and Marketing Changing markets and customer needs mean designs and processes have to be kept fresh and up-to-date. This program focuses on a designer who modifies his designs every year. Specifically, we look at:*	1997	Е	00:20:49
	Building Bridges: The Physics of Construction This program explores how bridges are made, with a focus on the physics used in design and construction. The elements of bridge building are explored step by step, from conception to completion - incl	2009	Е	00:26:51
	CAD-CAM in Industry and Schools This programme looks at various applications of CAD-CAM technology in schools and industries. Filmed in Britain, it includes footage and interviews from a major international bearing manufacturer, AES	2004	Е	00:26:13
	CAD-CAM In The Classroom The program shows how CAD-CAM works as an educational tool and then illustrates how one student was motivated to create and then successfully realise his dream.	2003	Е	00:27:11
	Ceramics and Glasses This programme looks at the process of producing both ceramics and glass, typical uses and the advantages and disadvantages of both these materials.	2005	E	00:25:06

	Choosing Sustainable Materials Series: Product Design and Sustainability Series	2009	Е	00:21:08
	Consumer pressure and new legislation mean designers and architects are increasingly being asked to use materials from a sustainable source. We talk to one of the world's leading architects who shows			
	Commercial Printing Processes	2007	Е	00:26:03
	This is a comprehensive and accessible introduction to the techniques and business of commercial printing. It looks at covering, binding, finishing, and how to create work that satisfies the client's			
	Composites: Properties, Processing and Uses	2002	Е	00:30:09
	This is an excellent introduction to the world of composite materials and their uses. We look at: - Raw materials: main sources world-wide - Primary production: converting raw materials into useful ma			
	Control Systems in Design and Technology	2012	Е	00:18:54
	For many years people have developed and used tools controlled directly by people, control systems have been around for hundreds of years before computers were invented. Currently we are experiencing			
	Creating a Logo: A Process for Designers	2004	Е	00:24:48
	Using the VEA logo as a real-life example, the process of conceptualising, designing and producing a logo is examined.			
	Cutting Metal: Methods Used During Manufacturing of Products	2002	Е	00:19:45
	This programme considers a wide range of methods currently in use in industry. The following processes are featured and include some excellent footage of these processes together with relevant explana			
X = = X	Design and Models Series: The Science of Disney Imagineering	2008	Е	00:30:45
	How did the Imagineers create a realistic looking snow-capped mountain in Florida for Animal Kingdom's Expedition Everest? They started with a design process and models. Using real theme park rides an			
	Design and the Environment	2010	Е	00:26:09
	The way in which products are made and the effects of the manufacturing process on the environment around them are fast becoming the most important considerations when a product or service is designed			
	Design for Different Needs	2008	Е	00:21:47
	This program is aimed at the continuing changes in the designing and manufacturing world. New material and manufacturing processes are influencing what products we buy and how we use them. The use of			
All the same of th	Design for Sustainability	2008	Е	00:26:07
NAMES OF THE OWNER,	Sustainable design is the art of designing physical objects to comply with the principles of economic, social and ecological sustainability. It ranges from the microcosm of designing small objects for			
	Design: A Team Approach	2010	Е	00:24:45
	We often think of design as a solo process, with one visionary chipping away at a project to create a masterpiece, but usually reality couldn't be further from the truth. Design projects often require			
	Design: All about Colour	2010	Е	00:21:37
	Colour has the ability to inspire our emotions and influence our moods like nothing else. It is a powerful tool in interior design and fashion, and is an integral component of design concepts. In thi			

Market Market	Design: Applying the Elements This program examines the design elements and principles in areas such as; architecture, environmental design, interior design, structural design and landscaping.	2004	E	00:25:50
	Design: The Elements The elements of design are the components that are used to create a complete design. This interesting programme presents a basic overview of the elements of design including: line - vertical, horizont	2010	E	00:20:45
	Designer Case Studies: Architecture, Crafts and Industrial Design This programme shows students how that complete the practical fieldwork needed to investigate a local ecosystem. We see three biology students documenting their chosen site by conducting fieldwork tas	2011	E	00:22:39
	Designers at Work Design is a fundamental way in which we express ourselves. And the designer is involved in every stage of the process, from the initial idea, to production and testing, and to eventual use. A perfect	2012	Е	00:21:18
	Designing a Chair: Sitting Pretty Featuring 2 contrasting designers, the programme looks at all aspects of the design process from the brief through to the evaluation of the final product by the client.	2001	E	00:30:42
All de	Designing a Lawnmower This film provides an excellent insight into the many different stages of designing and manufacturing a lawnmower. It takes us through the complete design process involved and discusses the thinking b	2004	E	00:16:42
	Designing a Restaurant This is a very informative film providing an account of the processes and problems designers have to go through when constructing a restaurant from scratch. In this film the complexities are enhanced	1999	E	00:22:35
	Designing a Workshop Project This programme follows two students as they plan and produce different versions of a CD holder. One chooses a wooden rotating rack as a way of storing a large number of CDs in minimal space; the other	2002	E	00:17:22
	Designing for the User: Inclusive Design Learn how to create products that meet user need and are inclusive. Designers explain how they determine their market, consider values and needs, use ergonomic and anthropometric data and respond to c	2009	Е	00:31:34
	Designing Toys: The Design Process at Work This program provides an informative and entertaining account of how toys are designed, manufactured and marketed. Toys featured include a toy oven, a model racing car, bath toys, puppets and simple w	1996	Е	00:25:53
ANT AND	Designing with Recycled Materials This resource looks at why and how specific plastics are recycled, regenerated and tested to fulfil the required characteristics for modern sustainable products. Includes: a chair made from Sony Plays	2009	Е	00:33:47
	Designing, Manufacturing and Evaluating a Product This programme takes a careful look into the steps and processes involved in the Design and Technology course. It:- Poses problems and actively identifies needs-Gathers information and building knowl	2007	Е	00:20:36

	Developing a Design Brief This Australian-made, curriculum fit program introduces the design process so that students will be able to design, produce and evaluate quality solutions that respond to identified opportunities and	2009	Е	00:26:31
	Digital Design Series: Designers under Pressure Showcasing cutting edge designs from two of the world's leading young designers. The programme follows them from drawing board to completion as they work with the very latest in smart materials and te	2006	Е	00:24:09
	Elements and Principles of Design This programme explains the elements used in visual design and then explains how these can be arranged and organised using the principles of design. It draws on real life examples used in 2 dimensiona	2004	E	00:30:19
	Engineered Wood Products An excellent insight into a range of common engineered wood products, this program also identifies the areas where the products have provided a viable replacement for the historical uses of old growth	1999	E	00:22:44
	Ergonomics and Design: Matching Products and Tasks with People This film examines the process of matching products and tasks with people and shows the students the numerous factors that need to be considered when designing products for optimum usability. Using an	2002	E	00:20:21
	Ergonomics in the Real World All most everything you see, touch, smell, taste and hear is designed for humans by humans. Ergonomics seeks to understand and improve human interactions with products, equipment, environments and sys	2010	E	00:20:13
TO S	Essentials of Design and Technology Skills: Drilling, Lathes and Soldering This programme focuses on skills required to use equipment in design and technology workshops. It features: soldering, using a metal lathe, and using pillar and hand drills.	2001	Е	00:25:36
	Evaluating a Product This programme begins by looking at the concept of aesthetics in design, what aesthetics are and how they are used to enhance the beauty and appearance of a consumer product. It then takes an in depth	2008	E	00:24:57
	Fabricating a Toolbox This film demonstrates step by step how to make a steel toolbox by hand. The processes explained include the initial marking up and cutting out of the steel to the accurate placing of the handle and t	1997	Е	00:20:05
	Fasteners For Cabinet Making This programme is an excellent introduction to the use of the various fasteners to join timber and manufactured boards in the construction of cabinets and furniture.	2006	Е	00:26:15
4	Fasteners for Construction This programme looks at withdrawal strength and the amount of effort required to pull a fastener out of timber. We see nailing techniques using hand nailing, air pressure nail guns and their safe use	2005	Е	00:26:35
	Ferrous Metals: Properties, Processing and Uses A wonderful introduction to the use of ferrous metals in the production of manufactured products in everyday life. It considers the full range of steels together with the reason why each is selected f	2002	Е	00:23:58

	Forming and Shaping Metal: Heating, Cold Forming and Milling This program examines the way metals can be manipulated when making products. It shows in detail the three most common methods of forming used in manufacturing heating (forging, pressing, forming in a	2002	E	00:22:14
Tananananananananananananananananananan	Graphic Products: Design and Manufacture A programme to inspire and inform students about graphic products and design. The programme uses 2 "best practice" case studies to illustrate different techniques and show how graphics can influence o	2003	Е	00:23:40
	Hand Tools for Woodworking For centuries humans have used their hands to build things and shape their environment, from creating a simple wheel to constructing giant sky scrapers. As our skills and the complexity of our tasks d	2009	Е	00:24:29
	How Alessi, Postmodernism and Memphis Changed the World A guide through the sometimes diverse ideas, designs and innovations that developed during the postmodern era. Includes footage filmed at the Alessi factory and museum and other Milan design houses, a	2012	Е	00:30:22
18	How Pop Art Changed the World Explore the ideas, materials, colours and technologies adopted by Pop Art. Then examine how this movement created new images, shapes and forms that continue to influence artists and designers today. F	2012	Е	00:32:06
	Influences on Design Many factors influence the design of products, systems or environments. Designers must consider how these factors will have an impact on their eventual users, environments and the wider world. Designe	2011	Е	00:17:39
	Innovation and Emerging Technologies Throughout history, there have been many wondrous, unique and important innovations. But never have there been so many technological advances in a specific time period than in the past hundred years	2009	Е	00:26:22
6	Inspirational Design This programme asks students to think about the elements of good design. We meet the designer of the Mclaren F1, known as the best super-car in the world. We see the use of carbon fibre, and other com	2000	Е	00:26:42
	Interior Design Project: Going Green Green design or designing with the environment in mind is not just a trend, but a personal choice to consider your impact on the earth. In this programme we discover green and environmentally friendly	2009	Е	00:21:30
	Joining Metals The programme is an excellent introduction to the methods of joining metals. It discusses the advantages of welding over non-welding methods and details both fusion and non-fusion methods. Students wi	2006	Е	00:29:32
	Lasers in Design Technology This programme takes a cutting edge look at lasers and CAD CAM technology used in industrial applications and describes why lasers are so central to modern industry.	2007	Е	00:24:14
	Life Cycle Assessment The impact of a wide range of materials is covered in the program, including the acquisition of raw materials, production, transportation, use and disposal of metal, plastic and wood products.	2003	Е	00:22:53

	Logos Series: Design in the Real World	2015	E	00:18:24
	Companies and other organisations rely on logos to convey information and create brand recognition. Their design is critical – time, creativity, expertise and often, vast sums of money, are invested i			
69 8-6-060	Making a Video	2004	E	00:28:32
	Whilst making a video may sound straightforward to start with, there are many stages to get a production started, carried out and completed. This programme takes you through the entire process from th			
	Managing a Design Project	2012	Е	00:16:32
2	This video aims to teach students an understanding of managing the various elements of design projects. The video emphasises the importance of managing design projects and introduces elements of proj			
CLANCE COLOR	Manufacturing and the Product Cycle: A Case Study of Moran Furniture	2006	Е	00:27:19
	In this programme Moran Furniture explain the stages in their product cycle - the process that creates their award-winning sofas.			
	Mechanical Systems: Combining Simple Machines	2000	E	00:20:37
50	People have used mechanical systems, in one form or another, since recorded history and this program demonstrates the variety of ways in which they have helped us in the manufacturing and transport in			
A 🙇 👚	Metals Series: The Practical Use of Materials	2010	Е	00:19:12
	Metal is all around us. From the cars on the road to the staples we use in the office, metal is one of the most common, flexible and naturally occurring materials used in modern design. In this inform			
	Model Making: Tools, Materials and Techniques	2007	Е	00:20:21
一级	This programme covers many areas for students in middle to senior secondary. It provides an informative look at all facets of model construction which could be for students starting a Design Technolog			
-	New Technologies - 3D Printing	2014	E	00:27:39
	New Technologies: 3D Printing is an informative look at the emerging manufacturing revolution occurring around this new technology. 3D printing business owner Scott Phillips (The Robots Are Coming) de			
	Non-Ferrous Metals - Properties, Processes and Uses	2002	E	00:20:59
	A comprehensive introduction to non-ferrous metals and their uses:Content covered in this programme includes:- What are non ferrous metals? - Raw materials: main sources world-wide - Primary productio			
The last	Part 1: Circular Saw, Reciprocating Saw and Jigsaw Series: Hand-Held Power Tools	2003	Е	00:16:58
	This programme illustrates and explains various handheld power tools one would find in a typical school workshop. Their segmented style allows for the full explanation of one tool before moving on to a			
TE PX	Part 1: Innovation Series: Factors of Design	2011	Е	00:17:07
090	This comprehensive series takes us through the design process and addresses the many factors that designers must contend with in the pursuit of great design and successful products. Our presenter illu			

	Part 1: Reproduction of Antique Furniture Series: Furniture Design	1999	E	00:19:19
1	We visit Bevan Funnell reproduction antique furniture factory in New Haven, Essex, UK.The process of reproducing antique furniture using largely modern technology is graphically shown. Also discussed			
	Part 2: Drills, Screwdrivers, Routers, and Sanders Series: Hand-Held Power Tools	2003	Е	00:18:08
202	Part 2 focuses on power drills, screwdrivers, hammer drills, routers, and sanders. Special sections on safety, with emphasis on the appropriate use of power extension cords and harmful noise levels ar			
	Part 2: Eight Furniture Designers Series: Furniture Design	1999	Е	00:33:16
	This is the second in a two part series on Furniture Design and takes a look at 8 individual bespoke furniture designers from Australia, Canada and the UK. We are shown that even though each differ in			
	Part 2: Time and Money Series: Factors of Design	2011	Е	00:18:04
	Almost everything in our lives has been designed in one way or another. Designers play a crucial, yet perhaps unnoticed role in society. In this programme our presenter Aldi explores the world of desi			
0	Part 3: Visual, Tactile and Aesthetic Series: Factors of Design	2011	E	00:16:20
	Have you ever thought about why individuals want to become designers? Maybe they have an eye for visual detail, or they are tactile and talented with their hands. Or maybe they have an eye for form, b			
	Part One: The Exterior Series: Building a House	2004	E	00:30:27
N. L	This programme is the first of two parts that follows the construction of an up-scale, wood-frame house from the empty lot to the final coat of paint. Part One concentrates on the exterior of the home			
MURI	Part Two: The Interior Series: Building a House	2004	E	00:27:37
	This concluding part of "Building a House" focuses on the construction and finishing of the interior of a wood-frame house. Students will see the installation of plumbing and drainage pipes throughout			
. 4	Planers: The Use of the Surface Planer Series: Machine Tools in the Woodwork Shop	2001	E	00:25:53
	The surface planer, or jointer, is the first machine tool demonstrated, in this informative and entertaining video. The honing and changing of the cutter blades is shown as well as proper and safe ope			
	Plastics Series: The Practical Use of Materials	2010	Е	00:22:49
	When we look around, mostly anything can be made out of plastic. From photocopiers in offices to the various household items in our homes, plastic is one of the most versatile, most highly adaptable m			
	Plastics in Manufacturing	2003	Е	00:21:42
	This programme provides an excellent range of examples of the four major methods of manufacturing plastic products as well as an insight into the making of the dyes involved. Students will gain a ver			
	Plastics: Properties and Uses A comprehensive introduction to thermoplastics and their uses: - What are plastics?	2002	Е	00:21:34
	- Raw materials: main sources world-wide - Primary production: converting raw materials into useful materials - Cla			

	Powered Saws: Band, Radial Arm and Compound Miter Saws With the table saw having its own video in this series, this program looks at three other machine saws in a typical school woodwork shop: The band saw - changing and selecting of the blade, a demonstr	2001	Е	00:28:30
	Preparing Wood: FEWTEL - The Preparation of Wood Stock This program illustrates the six steps of preparing a piece of lumber for use in a woodwork project. It employs the acronym, FEWTEL, as a way of remembering the sequence of these steps: F: Face sideE:	2001	Е	00:25:19
	Product Design and Mass Manufacture: Design Optimisation This resource explains the design process within one easy context, from client brief to finished product. It shows how designers work to budget, meet consumer needs, research existing products, use pr	2009	Е	00:25:45
A STATE OF THE PARTY OF THE PAR	Product Design, Testing and Modification: Trunki Trunki, the child's pull along suitcase, may have failed the Dragon's Den test, but thanks to further testing and modification it's now taking the world by storm. We film with the product designer and	2009	Е	00:25:15
	Promoting Your Designs If you're a designer or possibly an artist just starting out, the thought of promoting your own work seems an overwhelming task. How do you access the right people who may be interested in your work?	2010	Е	00:20:59
T	Redesigning a Product Many of the products that we use, wear and rely on have been redesigned time and time again. For a designer, redesigning a product is a way of perfecting an original idea or transforming it to meet th	2010	Е	00:23:54
	Resin Jewellery Series: Materials for Design Series In this programme we look at resin - a plastic that can be put to the most creative and artistic of uses.	2006	Е	00:23:19
	Robotics: Advances In Engineering Series: Show Me Science Advanced Series Almost fifty years ago the first industrial robot was "employed" in an automobile assembly plant. Robots are regularly used for hazardous, super-heavy and difficult tasks in manufacturing, agriculture	2010	Е	00:17:30
	Safety in Technology Workshops This programme concentrates on those areas of technology workshops in which students can make a significant contribution to their own safety, such as the use of personal protective equipment. Many pot	2001	Е	00:22:48
(Ba)	Safety in the Workshop: Avoiding Accident and Injury The workshop is an inherently dangerous place and as such safety and safe work practices must be the first priority in the layout of a workshop, and always in the minds of those who use it. This progr	2009	Е	00:22:49
	Smart Graphic Products This program examines the properties, characteristics and applications of some of the smart materials used in the graphics industry. Case studies include labels and packaging that use thermochromic in	2012	Е	00:30:42
	Smart Resistant Materials With extraordinary access to the latest research and development, this resource explores cutting edge smart materials finding out how they are made, how they work and what their potential applications	2011	Е	00:35:12

1	Social and Ethical Issues in Design Technology	2007	E	00:24:42
	This programme explores the associated social, lifestyle, ethical and ecological considerations that designers and multinational companies must address while moving through the design cycle. The prog			
, Y	Solar Sailor	2006	Е	00:22:40
-	Solar Sailor clearly articulates the choices that need to be made when designing, constructing and operating a commercial boat. Robert Dane takes us through a personal journey that starts with an obse			
1911	Structures: From Nature and Man Made	1999	Е	00:23:43
	This is a very informative film showing us a variety of everyday structures; both from nature and man made, and explains in a clear and concise way, the principles underlying the properties of each st			
	Student Design Project: Two Case Studies	2002	Е	00:28:09
	This program documents the work of two top students and shows the development of their 'model'.			
	Sunbeam's Café Aromatic Series: Visual Communication Series	2003	Е	00:24:21
	This program examines the role of the design, marketing and technology departments of Sunbeam in developing a new espresso machine for the home market.			
	Sustainable Design	2001	Е	00:21:18
	This video inspires students to incorporate sustainability into their design projects. 1. The Smart Car - This German car is designed for maximum economy of performance and space. The factory even re			
	Sustainable Packaging	2009	Е	00:30:19
	This resource explores what the food industry is doing to use less packaging. It looks at the role and function of packaging, how Easter packaging is being reduced, and how plastic bottles are recycle			
. 4 54	Sydney Tower: Designing and Maintaining Australia's Tallest Tower	1995	Е	00:26:58
	The role the tower now plays in telecommunications and tourism is discussed and we take an in-depth look at how a "tourism structure" evolves. Students will experience at first hand, the design idea			
	Synthetic Fibres and Plastics	2014	Е	00:10:43
	Objectives: To learn about synthetic fibres and the characteristics of synthetic fibres, and to learn about plastics and their types.Learning outcomes - students will be able to: 1. Classify fibres 2			
	Table Saw: The Safe Operation of the Table Saw	2000	Е	00:23:30
	When working with power tools in the school environment it is imperative that instructors are vigilant and give clear and concise instruction. This comprehensive program illustrates the safe and corre			
	Technical Graphics: Perspective Drawing and Rendering	1986	Е	01:29:57
4 16	Design lecturer, Stuart Arden presents perspective drawing using a grid, in particular generating 2VP and 1VP grids. Perspective is divided, subdivided and extended. Objects are positioned for perspec			
- 1 - 4	Technology, Robotics and Machines	2014	Е	00:11:59
	This unit introduces technology, robotics and machines through Robokot and Elesapian, two entertaining characters who bring this topic to life. This unit introduces the history of technology and expla			

	Testing Consumer Products This film gives us an insight into the processes undertaken to test and check the effectiveness, quality and safety of products destined for the consumer market. Quantitative, qualitative and sensory	1999	Е	00:21:01
Production of the second	The Tandou Brief Series: Visual Communication Series Focusing on the activities of the internationally recognised studio of Hoyne Design, this programme introduces students to the way in which a professional design company approaches creating a solution	2003	E	00:24:16
	The Timber Industry: Australia's Timber Industry Today A look at natural and plantation forests, logging and saw-milling, modern and traditional felling methods, veneering and engineering methods in modern furniture manufacture and computer and automated	1998	E	00:20:00
	Timber Furniture: The Design Process The skills involved in making quality timber furniture are sought after and a solid understanding of core design and construction principles underpins a student's future success. This programme clearl	2009	Е	00:21:07
	Tool Maintenance in the Workshop This programme sets out in clear, linear fashion how to take care of hand tools and how to maintain their efficiency. Addressing one tool at a time, the program includes demonstrations of sharpening a	2003	Е	00:32:35
AS	Trail of the Elephants Series: Visual Communication Series Examines the process involved to build the new elephant enclosure at the Melbourne Zoo.	2003	Е	00:22:42
	Vacuum Cleaner Design and Marketing Made with the help of Hoover Vortex, this video follows the design, production and launch of a new bagless vacuum cleaner. With unique access, we follow the new vacuum cleaner from concept to finished	2000	Е	00:26:23
2 0 1 0	Visual Design: Elements and Principles Stuart Arden, Head of Interior Design, Queensland University of Technology presents the visual elements of design, line, form, light, colour, texture and space. The principles of design are the basic	1989	Е	00:20:37
	Volvo: Life Cycle Assessment Series: Product Design and Sustainability Series The new focus on designing and manufacturing products that are considered sustainable has put extra responsibility on companies to rethink how they operate once such company is Volvo. With extraordi	2009	Е	00:26:39
	Websites Series: Design in the Real World Websites are the primary means of communication with the world for businesses and other organisations, governments, groups and individuals. They perform a range of functions and many considerations go	2015	Е	00:18:26
	What Inspires Design? Every design, no matter its form or function, is inspired by something. And it's this often elusive "something" which is explored in this thought-provoking programme for design and creative arts audie	2012	Е	00:16:48
	Wood Properties and Uses Series: Success in Retail Series Two In the workshop we carry out quick and ready tests for the following: - Hardness, stiffness, density, glueability Splitting and checking, finish, colour Friction Resistance to termites and fungu	2001	Е	00:20:16