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...

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...

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...

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...

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.

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:*

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...

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...

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.

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.
Choosing Sustainable Materials  
Series: Product Design and Sustainability Series  
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  
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  
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  
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  
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  
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... 

Design and Models  
Series: The Science of Disney Imagineering  
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  
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  
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... 

Design for Sustainability  
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  
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  
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...
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.

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...

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...

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...

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.

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...

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...

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...

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...

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...

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...

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...
<table>
<thead>
<tr>
<th>Title</th>
<th>Year</th>
<th>Duration</th>
</tr>
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<tbody>
<tr>
<td>Developing a Design Brief</td>
<td>2009</td>
<td>00:26:31</td>
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<tr>
<td>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...</td>
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<tr>
<td>Digital Design Series: Designers under Pressure</td>
<td>2006</td>
<td>00:24:09</td>
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<tr>
<td>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...</td>
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<tr>
<td>Elements and Principles of Design</td>
<td>2004</td>
<td>00:30:19</td>
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<tr>
<td>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 dimensions...</td>
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<tr>
<td>Engineered Wood Products</td>
<td>1999</td>
<td>00:22:44</td>
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<tr>
<td>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...</td>
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<tr>
<td>Ergonomics and Design: Matching Products and Tasks with People</td>
<td>2002</td>
<td>00:20:21</td>
</tr>
<tr>
<td>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...</td>
<td></td>
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<tr>
<td>Ergonomics in the Real World</td>
<td>2010</td>
<td>00:20:13</td>
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<tr>
<td>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...</td>
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<tr>
<td>Essentials of Design and Technology Skills: Drilling, Lathes and Soldering</td>
<td>2001</td>
<td>00:25:36</td>
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<tr>
<td>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.</td>
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<tr>
<td>Evaluating a Product</td>
<td>2008</td>
<td>00:24:57</td>
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<tr>
<td>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...</td>
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<tr>
<td>Fabricating a Toolbox</td>
<td>1997</td>
<td>00:20:05</td>
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<tr>
<td>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...</td>
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<tr>
<td>Fasteners For Cabinet Making</td>
<td>2006</td>
<td>00:26:15</td>
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<tr>
<td>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.</td>
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<tr>
<td>Fasteners for Construction</td>
<td>2005</td>
<td>00:26:35</td>
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<tr>
<td>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....</td>
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<tr>
<td>Ferrous Metals: Properties, Processing and Uses</td>
<td>2002</td>
<td>00:23:58</td>
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<tr>
<td>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...</td>
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</tbody>
</table>
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...

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...

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...

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...

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...

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...

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....

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...

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...

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...

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.

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.
Logos
Series: Design in the Real World
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...

Making a Video
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
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...

Manufacturing and the Product Cycle: A Case Study of Moran Furniture
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
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...

Metals
Series: The Practical Use of Materials
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
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
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
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...

Part 1: Circular Saw, Reciprocating Saw and Jigsaw
Series: Hand-Held Power Tools
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...

Part 1: Innovation
Series: Factors of Design
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

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

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

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

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...

Part 3: Visual, Tactile and Aesthetic
Series: Factors of Design

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

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...

Part Two: The Interior
Series: Building a House

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...

Planers: The Use of the Surface Planer
Series: Machine Tools in the Woodwork Shop

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

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

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? - 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...

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:...
Social and Ethical Issues in Design Technology

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...

2007   E   00:24:42

Solar Sailor

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...

2006   E   00:22:40

Structures: From Nature and Man Made

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...

1999   E   00:23:43

Student Design Project: Two Case Studies

This program documents the work of two top students and shows the development of their 'model'.

2002   E   00:28:09

Sunbeam’s Café Aromatic

Series: Visual Communication Series

This program examines the role of the design, marketing and technology departments of Sunbeam in developing a new espresso machine for the home market.

2003   E   00:24:21

Sustainable Design

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...

2001   E   00:21:18

Sustainable Packaging

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...

2009   E   00:30:19

Sydney Tower: Designing and Maintaining Australia's Tallest Tower

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...

1995   E   00:26:58

Synthetic Fibres and Plastics

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....

2014   E   00:10:43

Table Saw: The Safe Operation of the Table Saw

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...

2000   E   00:23:30

Technical Graphics: Perspective Drawing and Rendering

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...

1986   E   01:29:57

Technology, Robotics and Machines

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...

2014   E   00:11:59
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...

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...

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...

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 clear...

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...

Trail of the Elephants
Series: Visual Communication Series
Examines the process involved to build the new elephant enclosure at the Melbourne Zoo.

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...

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...

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 extraordin...

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...

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...

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...