## Proposed resource requirements

Providers must ensure that the student has access to the necessary materials, resources and workspaces. The following list is not exhaustive. Please refer to the qualification content for a more detailed indication of the required resources.

**Required for Core and all OS’s**

**software:**

* word processing (for example, Microsoft (MS) Word, Google Docs)
* presentation (for example, MS PowerPoint, Google Slides)
* spreadsheet (for example, MS Excel, Google Sheets)
* project management (for example, MS Excel, MS Project)
* free design software (for example, Canva, SketchUp Blender)
* design software (for example, CAD, AutoCAD, Solidworks, Adobe Creative Cloud Photoshop/Illustrator, Rhino3d)

**access to:**

* Internet
* a range of design history books
* a range of art and design research resources (for example, online subscriptions, books, journals)
* hardware with appropriate specifications (for example, PC, laptops, mobile devices)
* photographic equipment, (For example, cameras, USB leads)
* to printers/photocopiers
* art and design materials (for example, craft knives, cutting matt, scissors, sketch books, paper & card-various sizes/thicknesses, tracing paper, masking tape, paints & brushes, drawing/mixed media equipment, glue guns, staple guns, spray mount)

**Jewellery Maker:**

Jewellery workshops with access to:

* subject specific books, magazines, journals and other print materials
* specialist hand tools (for example, measuring gauges, setting tools, files, vice, hammers and mallets, piercing saw, tweezers, steel bench block)
* power tools (for example, rotary, pendant, pillar drill)
* materials (for example, copper, brass, acrylic, plastics, resin, leather, semi-precious stones)
* adhesives (for example, 2-part epoxy resin)
* varnishes (for example, renaissance wax)
* equipment to work harden surfaces (for example, burnishers)
* materials used to prepare items for polishing and finishing (for example, emery paper, polishing compounds, polishing accessories)
* materials used for etching (for example, press-n-peel paper, nitric acid, etching bath, bicarbonate soda)
* materials and equipment required for soldering (for example, micro torches, silver solder, flux, heat resists)
* equipment for cleaning (for example, pickle bath, ultrasonic cleaner tank, barrelbrite, barrel shot)
* equipment for holding and supporting work (for example, soldering, honeycomb, charcoal blocks, binding wire, ingot mould/holder, crucibles, third hand base)
* marking out tools to produce accurate measurements (for example, steel ruler, stencils, calipers, scriber)
* interpreting size and scale (for example, ring/bangle sizer)
* personal protective equipment (PPE) (for example, heavy duty face mask, gloves, safety goggles and boots)

non-essential resources that are nice to have:

* welders (for example, micro, pulse)
* mitre jig
* laser cutter
* microplating unit
* computer-aided design (CAD):
* 3D modelling computer programs (for example, Rhinoceros 3D, SketchUp, Tinkercad)
* 3D printing

**Ceramics Maker:**

ceramics studios with access to:

* subject specific books, magazines, journals and other print materials
* work bench and stool, wedging bench, plaster batts
* sink with running hot and cold water and a means for the safe disposal of waste (sediment tank/clay trap )
* electric kiln
* damp cabinet
* drying cabinet/racks
* a range of clays (including terracotta and stoneware)
* a range of glazes (for terracotta and stoneware temperatures)
* a range of glazing tools (for example, tongs, carpet tile, rubber and latex-alternative gloves)
* pottery equipment (for example, pottery wheel, pug mill, filter press, blunger, extruder, turntable, wooden boards)
* a range of coloured slips
* a range of metal oxides
* a range of coloured underglazes
* wax resist liquid
* a range of measuring tools (ruler, T-square, protractor, compass, weighing scales, calipers, measuring jug)
* a range of decorative tools (for example, hake brushes, sgraffito tools, slip trailers)
* a range of finishing tools (for example, sponges/cloths, kidneys, ribs)
* a range of throwing tools (for example, dottle, loop tools, calipers, turning tools, chammy)
* a range of pottery modelling, cutting and piercing tools (for example, surform, needle, bevel tool, hacksaw, wire clay cutter, potter's knife, holemakers)
* long rolling pins, rolling cloths and guide rails and/or slab roller/slab making tools
* miscellaneous materials (for example, sieves, spoons, containers, sponges, jugs for pouring, ladles, bowls, containers, sponges, spirit level, hair dryer or heat gun)
* spray gun and spray booth
* wrapping material for damp and drying work
* equipment for cleaning (for example, sponges, cloths, mops, buckets)
* handwashing implements (soap, antibacterial hand sanitiser, nail brush)
* PPE (for example, filter mask, gloves, aprons, goggles)
* digital facilities (for example, image scanner)
* design software (for example, CAD, Adobe Creative Cloud)
* paper, newspaper/print, cardboard (for templates and supports)

**Furniture Maker:**

workshops with access to:

* subject specific books, magazines, journals and other print materials
* materials (for example, varieties of timber)
* machine tools-(for example, circular saw, table saw, chop saw, radial arm saw, plunging router spindle molder, router table, mortice machine)
* pedestal drill, hand drill/battery drill
* hand tools (for example, selection of hand planes, various sizes of firmer, bevel edged and mortice chisels, wooden mallet, handheld and cordless screwdrivers)
* nail punchers
* marking gauge
* mortice gauge
* hammers – cross pein hammer, pin, claw
* hand saws (for example, panel, tenon dovetail, rip and crosscut)
* measuring tools (for example, set square, metal rule, try square­
* clamps
* G cramps, speed cramps, sash cramps
* range of waxes, varnishes, adhesives, stains
* bradawl
* sharpening stones
* cabinet scraper
* spoke shave
* rasp and files
* paper, cardboard (for templates)
* PPE (for example, filter mask, gloves, safety goggles and boots)

**upholstery:**

workshops with access to:

* foam cutters, foam-various thicknesses/density
* buttoning machine
* filling (for example, natural & synthetic)
* range of fabrics & accessories, (for example, calico, canvas, cotton, hessian, scrim, recycled fabrics, piping, braid, zips, studs, mixed threads)
* springs & rings-various sizes
* pins, tacks
* and tools (for example, hammers, cross pein hammer, magnetic, wooden/hide mallet, hand saw)
* various sizes of chisels, ripping chisel
* clamps, cramps -varied in size
* tack lifter, staple lifter
* bradawl
* cabinet scraper
* pincers, pliers, scissors/shears- hand and powered
* webbing & stretcher
* eyelet/hole punchers,
* nail punchers
* regulator
* needles ( for example: selection of curved needles mattress needle, spring needle)
* skewers and pins tacks
* sewing machine, overlocker
* short and long nose staple gun
* compressor
* measuring tools
* wooden frames/timber for preparation of frames
* varnishes & adhesives, glue guns, fixatives (spray booth)
* paper, cardboard (for templates and patterns)
* PPE (for example, filter mask, gloves, safety goggles and boots)

**Textiles and Fashion Maker:**

textiles/fashion studios with access to:

* subject specific books, magazines, journals and other print materials
* cutting tables
* mannequin/tailors dummy
* various types and sized pattern blocks
* pattern paper & card, pattern notchers, tracing wheels, fabric weights, tailors chalk
* toile calico, a range of fabrics (for example cotton, silk, polyester, soluble embroidery materials, wadding)
* scrap fabrics for experimentation (for example, recycled fabrics)
* digital design software (for example, Adobe Illustrator, Inkscape, CLO 3D)
* measuring implements (for example, tape measure, ruler, French curve, set square)
* cutting implements (for example, blades, scissors, fabric shears)
* dyeing equipment (for example, dyes, fixative, screens, squeegees, digital weighing scales, measuring containers, dye vats, heat source for dye)
* washing machine/tumble dryers/ drying racks
* materials (for example, yarn, thread, woven fabric, leather, interfacing, linings, adhesives)
* insertions (for example, zips, buttons, studs, piping, bindings)
* embroidery hoops, threads, hand needles, embroidery feet
* embellishments (for example, sequins, beads)
* tools and equipment (for example, pins, corner shaper, pressing tools)
* sewing machines, range of machine feet, overlockers
* knitting needles, knitting machines & associated accessories
* weaving looms, hand weaving frames and needles
* felt making fleece, needles
* printing materials, tools & equipment (for example, mono printing inks/slabs, rollers, screen bed, screen printing inks and associated accessories, washing out facilities/equipment)
* steam pressing machine and accessories (for example sleeve board, velvet board, pressing cloths, irons)
* steamer, batik pot and tjanters, wax
* heat press & heat transfer paper, heat transfer dyes
* sewing threads, knitting, and weaving yarns
* PPE (for example, eye protection, gloves, aprons, masks)