Schools ITQ - Unit 24 Additive Manufacture (Gold Unit 24)

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Handbook home page [2]

- General guidance for interpreting OCF gualification levels [3]
- Link to assessor's guide to interpreting the criteria for this unit [4]
- Click on the links in the table below for specific guidance on the assessment criteria.
- National Strategies APP criteria [5] are relevant from Entry 3 upwards.
- References to personal learning and thinking skills (PLTS) [6]

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Unit 1, Additive Manufacture (3 credits)

1. use a brief to design 3D objects.	2. enable 3D manufacture from a 3D design.
1.1 explain the need for a specified design. [7]	2.1 export a file for additive manufacture. [8]
1.2 describe design constraints. [9]	2.2 explain the need for appropriate file format and dimensions. [10]
1.3 select appropriate software to develop the design. [11]	2.3 import files into additive manufacture software. [12]
1.4 research information to support a design. [13]	2.4 use the appropriate settings to create a build file. [14]
1.5 create a set of information on which to base a design, starting from a template, image trace or pre-existing object. [15]	2.5 explain possible issues related to print speed, quality, size and overall outcome. [16]
1.6 create a 3D design through customising existing templates or instructions. [17]	2.6 use the 3D printed final product to identify possible improvements. [18]
1.7 make checks to ensure the model will print. [19]	2.7 identify how an additive manufacture design can be used alongside or to aid existing design and manufacture processes or systems. [20]
1.8 amend errors and ensure design quality. [21]	2.8 communicate a written evaluation of the design process to others. [22]

Source URL: https://theingots.org/community/sil2u24x

Links

- [1] https://theingots.org/community/ITQ_unit_development
- [2] https://theingots.org/community/handbook2
- [3] https://theingots.org/community/QCF levels
- [4] https://theingots.org/community/SML2U1
- [5] http://nationalstrategies.standards.dcsf.gov.uk/focuses/959/861/110166
- [6] http://curriculum.qcda.gov.uk/key-stages-3-and-4/skills/plts/planning-for-plts/index.aspx
- [7] https://theingots.org/community/sml2u1x#1.1
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- [22] https://theingots.org/community/sml2u1x#2.8
- [23] https://theingots.org/community/sml2u1i