

Liverpool John Moores University

Title: CAD and Essential Production Skills
Status: Definitive
Code: **4532TPR** (124060)
Version Start Date: 01-08-2021

Owning School/Faculty: Liverpool Screen School
Teaching School/Faculty: Liverpool Institute for Performing Arts

Team	Leader
Mark Smith	

Academic Level: FHEQ4
Credit Value: 20
Total Delivered Hours: 117
Total Learning Hours: 200
Private Study: 83

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	36
Practical	35
Seminar	15
Tutorial	6
Workshop	25

Grading Basis: Pass/Not Pass

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	exam	Students will cover the essential skills outlined above and will be continually assessed on their practical competency and understanding. There will be a core of knowledge on theoretical, practical and legal issues around backstage work that will be assessed by examination at the end of the module. The range of competencies to be checked off	100	

Category	Short Description	Description	Weighting (%)	Exam Duration
		will change annually, with new equipment and updates in legislation, but the assessment will be a pass/fail test of a student's willingness to engage with the active accumulation of sufficient skills to work safely within LIPA. Requirement Designation could not be ticked as there was no option for LIPA in the drop down menu.		

Aims

The aim of this course is to equip level 4 students with both basic safe working knowledge and practical core competency in design and technical tasks that consider industry expectations as well as LIPA in-house safe working practices that include an exploration of the legal obligations explicit in the work place. These competencies will enable the learner to work in an informed and safe manner. The delivery of technical and design responsibilities requires certain fundamental skills that will be deployed in future assessments, AutoCAD, Photoshop software and other visualisation platforms, key practices that will form a strong foundation for future assessments and practical delivery

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate an understanding of the key elements of technical drawings, layouts and visualisations for performance by creating accurate computer-aided designs in two and three-dimensional forms.
- 2 Demonstrate abilities in backstage production-related skills, such as scenic construction workshop techniques, basic electrical safety and skills, rigging and flying equipment techniques and working at height.
- 3 Appreciate and implement codes of practice and safe working procedures related to LIPA's Health and Safety policy and industry-related regulations.
- 4 Create, assemble and modify raster graphic images through the use of the photo manipulation software to communicate design ideas and intentions.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Examination	1	2	3	4
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Outline Syllabus

Students will undertake and achieve suitable expertise in technical and design tasks associated with producing live performance safely. This will include such issues and skills as:

**Computer-aided design using AutoCAD software and computer visualisation software.*

**Introduction to Photoshop software.*

**Scenic construction workshop techniques, tools & safety.*

**Stage technology, incorporating the understanding flying and rigging systems and how to design (e.g. Loading and suspension considerations), install and operate them safely.*

**Basic electrical safety.*

**Soldering skills.*

**Working at height and the use of in-house access equipment, such as stepladders, extension ladders, Zarges, Tallescopes and Genie platforms. Use of chemicals, solvents and flammable or volatile substances.*

**Fire safety at work.*

**Development of skills in technical and design areas in AV*

Learning Activities

This module will be delivered through a series of lectures and seminars that introduce students to the current theory and practice of safe working methods, as exemplified by the LIPA internal procedure, together with practical workshops expanding the material covered. Students will be encouraged to practice physical tasks independently before assessment, to gain fluency. Sessions will also cover the essential skills necessary to use LIPA equipment safely and intelligently, and students will be continually assessed on their practical competency. Apart from personal tools, all equipment will be provided by LIPA, such as cable, connectors, workshop equipment and soldering irons.

Notes

Paul Halgarth is the Module Leader.