

Liverpool John Moores University

Title: FUNDAMENTAL SKILLS
Status: Definitive
Code: **4531TPR** (118557)
Version Start Date: 01-08-2014

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

Team	Leader
Mark Smith	Y

Academic Level: FHEQ4
Credit Value: 12.00
Total Delivered Hours: 40.00
Total Learning Hours: 120
Private Study: 80

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	10.000
Practical	18.000
Workshop	10.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	EXAM	Continual assessment and examination of competence and understanding.	100.0	2.00

Aims

There has always been a need to equip first year students with basic safe working knowledge and practical competency in design and technical tasks so that they can begin to work on LIPA's production programme as soon as possible after they enroll; some come with a lot of previous experience, but are unaware of in-house safe working practices, or need some further information to be able to become a fully involved. LIPA also has legal obligations to ensure students have been assessed as

competent by the production staff, outside of academic requirements, so that the Institute can ensure safety at work, particularly on potentially hazardous tasks.

Most of these proficiencies do not lend themselves to qualitative assessment on traditional grading criteria; students either understand how to perform that task or they do not. These are however key practices that will form a strong foundation for future careers, and so the team would like to focus the student's attention onto the acquisition of key skills. This will be a main foundation for their personal development planning throughout their study at LIPA, and they will supplement class-acquired skills with experience from voluntary work on shows in their first year of study.

Learning Outcomes

After completing the module the student should be able to:

- LO1 Value a responsible and informed attitude to good health and Safety practice, current UK and European legislation, within areas such as risk management, manual handling, COSHH, electrical protection and testing, rigging and flying, working at height, lone working and fire and public safety
- LO2 Calculate and assess project specifications in the examination of detail, such as electrical calculation, materials lists and loading limitations
- LO3 Accept responsibility for their own learning and, appreciating the gaps in their knowledge and understanding, take the initiative to seek opportunities to learn appropriately.

Learning Outcomes of Assessments

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

CONT. ASSESS & EXAM LO1 LO2 LO3

Outline Syllabus

This module will introduce students to the theory and practice of safe working methods today, as exemplified by the LIPA internal procedure. Students will undertake and achieve suitable expertise in the technical, design and production tasks associated with constructing and installing temporary equipment and scenic systems for live performance, with the foundation of the general skills and vocabulary of knowledge to work safely. This will include such issues and skills as:

Scenic construction workshop techniques, tools & safety

Use of chemicals, solvents and flammable or volatile substances

Basic electrical wiring & maintenance

PAT testing; legal requirements and working practice associated with it.

Good working practice in the rigging, focusing and operation of a basic lighting rig

Electrical safety (calculations & loading)

Soldering

Manual handling

Loading and suspension considerations, the use of temporary supports

Working at height & the use of in-house access equipment, such as extension ladders, Zarges, and Genie Hoist

Flying and rigging

Lone working

We will examine the various types of technical paperwork, from risk assessment documentation, COSHH data sheets, to approved codes of practice, as well as the calculations and specifications necessary to complete and realize a design within the framework of current UK regulations.

Learning Activities

Teaching sessions will begin with seminars on basic safe working practice, to be followed by practical workshops and sessions expanding the material covered, and applying that knowledge to working practice. Sessions will 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, sewing machines, workshop equipment and soldering irons, and students will be encouraged to practice physical tasks independently before assessment, to gain fluency. Teaching will be led by both the lecturing staff and productions department technical staff, as the in-house technicians and LIPA production manager need particularly to assure themselves of the competency of student crews, and that students are aware of current institutional policies and procedures before commencing work in potentially hazardous situations.

There will be a core of knowledge on theoretical, practical and legal issues around backstage work, to be assessed by examination at the end of the module. The range of competencies to be checked off will change annually, with new equipment and updates in legislation, but the assessment will be pass/fail test of a student's willingness to engage with the active accumulation of sufficient skills to work safely within LIPA. The assessment of a student's awareness of good practice, and the tuition of key competencies and safe working practices will be led by the LIPA production manager and technicians.

Notes

Students will need to purchase a basic electrical toolkit, including a variety of screwdrivers and a Stanley knife or similar to trim insulation for cables. Soldering irons, cables and plugs, and electrical test equipment will be provided by LIPA, but a more specialized insulation stripper is recommended for convenience, and can be picked up cheaply from local hardware retailers.

Additional References:

LIPA Safe Working Practice documents and method statements published on internal VLE

HSE website for current legislation and guidance notes <http://www.hse.gov.uk/>

ABTT website, publications and guidance notes

<http://www.abtt.org.uk/publications/codes-of-practice>