

Training Instructional Skills



Course Title: Instructional Skills Course

Course Code: TVT-001a/b

Accreditation Number: N/A

Course Overview: This course provides a comprehensive foundation of knowledge, skills and attitude for new Trainers/Instructors in session planning, preparation and delivery of training or instruction.

Target Audience: This course is aimed at those people wishing to acquire skills that will enable them to prepare and deliver training objectives based on the needs of business or customer requirements and also to select, develop and structure appropriate training content.

Prerequisites: 1. Delegates must have a minimum International English Language Testing System (IELTS) certification of 5.5
2. Delegates are required to produce a pre-developed self-selected 15 minute micro-teach lesson in preparation for course.

Course Duration: BAES SDT offers two programme options:

1. TVT-001a: 3 weeks – achieves full course aim for delegates (25-contact hour's p/w).
2. TVT-001b: 5 days – refresher / re-currency for experienced delegates

Course Programme Summary of Content:

- | | |
|--|---|
| 1. Delivery of a self-developed 15 minute micro-teach lesson | 6. Questioning techniques |
| 2. Effective communication skills and the learning process | 7. Course documentation |
| 3. Presentation and delivery skills | 8. Setting training objectives |
| 4. The selection and use of training aids | 9. Skills lesson planning |
| 5. Introduction to the Systems Approach to Training (SAT) | 10. Development and delivery of a 15 minute assessed lesson |

Assessments: Delegates will be assessed throughout the programme to determine acceptable levels of understanding through practical application.
The final assessment will consist of the delegate delivering a videoed 15 minute lesson, capturing and demonstrating all the skills acquired during the course.

Award on Completion: Certificate of Achievement endorsed by the Institute of Leadership and Management (ILM).



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Engineering

Mechanical Pipeline

(BTEC First)



Course Title: Pearson BTEC International Level 2 Diploma in Engineering (Maintenance)

Course Code: TVT-002a

Accreditation Number: I9330

Course Overview: This course is intended to be an applied general qualification within the engineering maintenance mechanical sector in order to give learners the opportunity to develop a range of skills and techniques, personal skills and attributes essential for successful performance in working life.

Target Audience: This course is structured through a wide range of units aimed at providing opportunities for learners who intend progressing into technician roles and for those who are not yet based in industry and who wish to gain an understanding of engineering.

Prerequisites: Delegates must have a minimum International English Language Testing System (IELTS) certification of 4.5

Course Duration: 22 Training Weeks (25-contact hour's p/w).

Course Programme Summary of Content:

Unit 1- Working Safely and Effectively in Engineering
Unit 2- Interpreting and Using Engineering Information
Unit 3- Mathematics for Engineering Technicians
Unit 4- Applied Electrical and Mechanical Science for Engineering
Unit 5- Engineering Maintenance Procedures
Unit 8- Selecting Engineering Materials

Unit 9- Engineering Assembly Methods and Techniques
Unit 11- Operation and Maintenance of Mechanical Systems and Components
Unit 18- Engineering Marking Out
Unit 24- Operation and Maintenance of Fluid Power Systems and Components

Assessments: The theory and practical assessment of Pearson BTEC International Level 2 qualification is criterion-referenced and BAES SDT is required to assess learners' evidence against published outcomes of learning and assessment criteria.

Award on Completion: Pearson BTEC International Level 2 Diploma in Engineering (Maintenance) through a grading scale of: Pass, Merit, Distinction.



Issued : 05/2018

Engineering

Electrical Pipeline

(BTEC First)



Course Title: Pearson BTEC International Level 2 Diploma in Engineering (Maintenance)

Course Code: TVT-002b

Accreditation Number: I9330

Course Overview: This course is intended to be an applied general qualification within the engineering maintenance electrical sector in order to give learners the opportunity to develop a range of skills and techniques, personal skills and attributes essential for successful performance in working life.

Target Audience: This course is structured through a wide range of units aimed at providing opportunities for learners who intend progressing into technician roles and for those who are not yet based in industry and who wish to gain an understanding of engineering.

Prerequisites: Delegates must have a minimum International English Language Testing System (IELTS) certification of 4.5

Course Duration: 22 Training Weeks (25-contact hour's p/w).

Course Programme Summary of Content:

Unit 1- Working Safely and Effectively in Engineering
 Unit 2- Interpreting and Using Engineering Information
 Unit 3- Mathematics for Engineering Technicians
 Unit 4- Applied Electrical and Mechanical Science for Engineering
 Unit 5- Engineering Maintenance Procedures
 Unit 8- Selecting Engineering Materials

Unit 12- Operation and Maintenance of Electrical Systems and Components
 Unit 13- Operation and Maintenance of Electronic Systems and Components
 Unit 19- Electronic Circuit Construction

Assessments: The theory and practical assessment of Pearson BTEC International Level 2 qualification is criterion-referenced and BAES SDT is required to assess learners' evidence against published outcomes of learning and assessment criteria.

Award on Completion: Pearson BTEC International Level 2 Diploma in Engineering (Maintenance) through a grading scale of: Pass, Merit, Distinction.



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Aircraft Maintenance

Military Aircraft Electrical and Avionics



Course Title: City & Guilds Level 3 Diploma in Aircraft Maintenance (Military Aircraft Electrical and Avionics) (2675-03)

Course Code: TVT-003a

Accreditation Number: 600/1971/2

Course Overview: This course is designed to equip the Fixed Wing Aircraft Maintenance Engineer or unlicensed Aircraft Technician with the majority of the knowledge requirement for their chosen role.

Target Audience: This course is aimed at those people wishing to learn, develop and practice the skills required for employment and/or career progression in the military aeronautical electrical & avionic engineering sector.

Prerequisites: Delegates must have a minimum International English Language Testing System (IELTS) certification of 4.5 average with a 4.0 minimum for each pillar.

Course Duration: 64 Training Weeks (25-contact hour's p/w).

Course Programme Summary of Content:

Unit 030- Digital Techniques and Electronic Instrument Systems in Aircraft (mandatory)

Unit 035- Human Factors in Aviation (mandatory)

Unit 201- Fundamentals of Electronics and Avionics (mandatory)

Unit 202- Military Policy and Regulation in Aviation (mandatory)

Unit 203- Aircraft Aerodynamics and Control in Fixed Wing Aircraft (mandatory)

Unit 208- Maintaining Aircraft Electrical Cables (mandatory)

Unit 209- Electronics in Aircraft (mandatory)

Unit 210- Maintaining Avionic and Electrical Systems in Aircraft (mandatory)

Unit 215- Aviation Mathematics and Science (mandatory)

Unit III- Working Safely with Aircraft Armament Systems (elective)

Assessments: A combination consisting of formative and summative theory/practical assessments.

Award on Completion: Level 3 Diploma in Aircraft Maintenance (Military Aircraft Electrical and Avionics) (2675-03).



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Aircraft Maintenance

Military Aircraft Mechanical



Course Title: City & Guilds Level 3 Diploma in Aircraft Maintenance (Military Aircraft Mechanical) (2675-03)

Course Code: TVT-003b

Accreditation Number: 600/1972/4

Course Overview: This course is designed to equip the Fixed Wing Aircraft Maintenance Engineer or unlicensed Aircraft Technician with the majority of the knowledge requirement for their chosen role.

Target Audience: This course is aimed at those people wishing to learn, develop and practice the skills required for employment and/or career progression in the military aeronautical mechanical engineering sector.

Prerequisites: Delegates must have a minimum International English Language Testing System (IELTS) certification of 4.5 average with a 4.0 minimum for each pillar.

Course Duration: 64 Training Weeks (25-contact hour's p/w).

Course Programme Summary of Content:

Unit 035- Human Factors in Aviation (mandatory)
Unit 201- Fundamentals of Electronics and Avionics (mandatory)
Unit 202- Military Policy and Regulation in Aviation (mandatory)
Unit 203- Aircraft Aerodynamics and Control in Fixed Wing Aircraft (mandatory)
Unit 204- Structural Materials and Components in Aircraft (mandatory)

Unit 205- Maintaining Aircraft Structures (mandatory)
Unit 207- Maintaining Gas Turbine Engines and Propellers (optional unit 2)
Unit 215- Aviation Mathematics and Science (mandatory)
Unit 218- Maintaining Military Aircraft Mechanical Systems (optional unit 1)

Assessments: A combination consisting of formative and summative theory/practical assessments.

Award on Completion: Level 3 Diploma in Aircraft Maintenance (Military Aircraft Mechanical) (2675-03).



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Aircraft Maintenance

Civil Aircraft Mechanical



Course Title: City & Guilds Level 3 Diploma in Aircraft Maintenance (Civil Aircraft Mechanical) (2675-03)

Course Code: TVT-003d

Accreditation Number: 600/1929/3

Course Overview: This course is designed to equip the Fixed Wing Aircraft Maintenance Engineer or unlicensed Aircraft Technician with the majority of the knowledge requirement for their chosen role.

Target Audience: This course is aimed at those people wishing to learn, develop and practice the skills required for employment and/or career progression in the civil aeronautical mechanical engineering sector.

Prerequisites: Delegates must have a minimum International English Language Testing System (IELTS) certification of 4.5 average with a 4.0 minimum for each pillar.

Course Duration: 64 Training Weeks (25-contact hour's p/w).

Course Programme Summary of Content:

Unit 017- Civil Legislation in Aviation (mandatory)
Unit 035- Human Factors in Aviation (mandatory)
Unit 201- Fundamentals of Electronics and Avionics (mandatory)
Unit 203- Aircraft Aerodynamics and Control in Fixed Wing Aircraft (mandatory)
Unit 204- Structural Materials and Components in Aircraft (mandatory)

Unit 205- Maintaining Aircraft Structures (mandatory)
Unit 206- Maintaining Aircraft Mechanical Systems
Unit 207- Maintaining Gas Turbine Engines and Propellers
Unit 215- Aviation Mathematics and Science (mandatory)

Assessments: A combination consisting of formative and summative theory/practical assessments.

Award on Completion: Level 3 Diploma in Aircraft Maintenance (Civil Aircraft Mechanical) (2675-03)



Issued : 05/2018



Aircraft Maintenance

Human Factors & Error Management (Initial Training)



Course Title: Human Factors & Error Management

Course Code: TVT-004a

Accreditation Number: N/A

Course Overview: This course provides delegates with the initial overview of Human Factors principles specific to aviation maintenance and to optimise the relationship between people and systems with a view to improving performance and the safety culture. This meets the requirements for Part I45.a.30.

Target Audience: This course is suitable for all aviation professionals who require a practical overview of Human Factors and Error Management along with the associated regulatory requirements.

Prerequisites: Delegates must have a minimum International English Language Testing System (IELTS) certification of 4.5

Course Duration: 2 Days

Course Programme Summary of Content:

- | | |
|---|---|
| 1. Introduction to Human Factors and Regulatory Requirements. | 5. Organisational Issues and Understanding Blame |
| 2. Human Performance and Limitations | 6. Organisational Factors in Aviation Maintenance |
| 3. Factors affecting Human Performance | 7. Maintenance Error Management Systems |
| 4. Human Error in Aviation Maintenance | 8. An introduction to Safety Management Systems |

Assessments: Implementation of formative assessment throughout the course to establish transfer of learning.

Award on Completion: BAES SDT Certificate of Completion.



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Aircraft Maintenance

On-Aircraft Maintenance Category A



Course Title: City & Guilds Level 3 Diploma On-Aircraft Maintenance Category A (2675-04)

Course Code: TVT-005a

Accreditation Number: 600/1927/X

Course Overview: This course is designed to enable delegates to develop the essential knowledge and hand-skills to become an aerospace technician or engineer. In addition, it will equip the aspiring Licensed Aircraft Maintenance Engineer or unlicensed Aircraft Technician with the majority of the knowledge requirement for their chosen role.

Target Audience: This course is aimed at delegates who work, or want to work in the aeronautical engineering sector across a range of roles and career routes. It allows delegates to learn, develop and practise the skills required for employment and/or career progression in the aeronautical engineering sector.

Prerequisites: Delegates must have a minimum International English Language Testing System (IELTS) certification of 4.5

Course Duration: 43 Training Weeks (25-contact hour's p/w).

Course Programme Summary of Content:

Unit 001- Fundamentals of Aviation Mathematics and Science (mandatory)

Unit 002- Fundamentals of Aircraft Electrics, Digital Techniques and Electronic Instrument Systems (mandatory)

Unit 003- Fundamentals of Aircraft Materials and Hardware (mandatory)

Category A1 – Aeroplanes (Turbine):

Unit 007- Fundamentals of Aircraft Aerodynamics, Structures and Systems for Turbine Engines

Unit 010- Fundamentals of Aircraft Gas Turbine Engines

Unit 012- Fundamentals of Aircraft Propellers

Unit 004- Fundamentals of Aircraft Maintenance Practices (mandatory)

Unit 005- Fundamentals of Aerodynamics (mandatory)

Unit 006- Fundamentals of Civil Aviation Legislation (mandatory)

Unit 035- Human Factors in Aviation (mandatory)

Assessments: A combination consisting of formative and summative theory/practical assessments.

Award on Completion: Level 3 Diploma On-Aircraft Maintenance Category A (2675-04).



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Aircraft Maintenance

EASA Aircraft Licence Category A1



Course Title: EASA Aircraft Licence Category A1

Course Code: TVT005b

Accreditation Number: I47.0046

Course Overview: This course is designed to provide delegates with the basic underpinning theoretical knowledge required for the category A role and to provide basic skills and maintenance practices training to establish basic practical competence. The approved course must be followed by a minimum of 1 year's practical line maintenance experience to consolidate the training received prior to licence application.

Target Audience: This course is aimed at delegates who work, or want to work in the aeronautical engineering sector across a range of roles and career routes. It allows delegates to learn, develop and practise the skills required for employment and/or career progression in the aeronautical engineering sector as a Cat A1 Licenced Aircraft Engineer.

Prerequisites: Delegates must have a minimum International English Language Testing System (IELTS) certification of 4.5

Course Duration: 43 Training Weeks (25-contact hour's p/w).

Course Programme Summary of Content:

Module 1- Maths

Module 2- Physics

Module 3- Electrical Fundamentals

Module 5- Digital Techniques

Module 6- Materials & Hardware

Module 7- Maintenance Practices

Module 8- Aerodynamics

Module 9- Human Factors

Module 10- Aviation Legislation

Module 11- Aeroplanes, Aerodynamics, Structures and Systems

Module 15- Gas Turbine Engines

Module 17-Propellers

Assessments: A combination consisting of formative and summative theory/practical assessments.

Award on Completion: EASA Pt I47 Category A1 Certificate of Recognition (Fully Approved Basic Training Course).



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Aircraft Maintenance

Civil Aircraft Electrical & Avionic



Course Title: City & Guilds Level 3 Diploma in Aircraft Maintenance (Civil Aircraft Electrical & Avionics) (2675-03)

Course Code: TVT-003c

Accreditation Number: 600/I970/0

Course Overview: This course is designed to equip the Fixed Wing Aircraft Maintenance Engineer or unlicensed Aircraft Technician with the majority of the knowledge requirement for their chosen role.

Target Audience: This course is aimed at those people wishing to learn, develop and practice the skills required for employment and/or career progression in the civil aeronautical electrical and avionics engineering sector.

Prerequisites: Delegates must have a minimum International English Language Testing System (IELTS) certification of 4.5 average with a 4.0 minimum for each pillar.

Course Duration: 64 Training Weeks (25-contact hour's p/w).

Course Programme Summary of Content:

Unit 017- Civil Legislation in Aviation (mandatory)
Unit 030- Digital Techniques and Electronic Instrument Systems in Aircraft (mandatory)
Unit 035- Human Factors in Aviation (mandatory)
Unit 201- Fundamentals of Electronics and Avionics (mandatory)
Unit 203- Aircraft Aerodynamics and Control in Fixed Wing Aircraft (mandatory)

Unit 204- Structural Materials and Components in Aircraft (elective)
Unit 208- Maintaining Aircraft Electrical Cables (mandatory)
Unit 209- Electronics in Aircraft (mandatory)
Unit 210- Maintaining Avionics and Electrical Systems in Aircraft (mandatory)
Unit 215- Aviation Mathematics and Science (mandatory)

Assessments: A combination consisting of formative and summative theory/practical assessments.

Award on Completion: Level 3 Diploma in Aircraft Maintenance (Civil Aircraft Electrical & Avionics) (2675-03)



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