



## 2024 Technology Merit Badge Academy

### Class Catalog

#### Event Contacts

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Registration opens February 18, 2024  
Visit [www.scoutingevent.com/500-82254](http://www.scoutingevent.com/500-82254) to register



## Class Catalog

2024 Technology Merit Badge Academy: 2022 TMBA at BC3

### Merit Badge - General use (Scheduled Classes)

**MB113 Automotive Maintenance**

Modern automobiles are important to many aspects of American life. Those who service automobiles must understand each principle, and how these principles interact to provide smooth, efficient performance. Owners of cars also benefit by understanding how their vehicles operate. This enables them to understand why certain periodic maintenance is required to keep their vehicles in tip-top shape.

9-3:30 PM

**Maximum number of participants:** 14[https://filestore.scouting.org/filestore/merit\\_badge\\_reqandres/automotive\\_maintenance.pdf](https://filestore.scouting.org/filestore/merit_badge_reqandres/automotive_maintenance.pdf)**MB120 Chemistry**

Chemistry explores how substances react with each other, how they change, how certain forces connect molecules, and how molecules are made are all parts of chemistry. Stretch your imagination to envision molecules that cannot be seen - but can be proven to exist - and you become a chemist.

9-3:30 PM

**Maximum number of participants:** 12[https://filestore.scouting.org/filestore/merit\\_badge\\_reqandres/chemistry.pdf](https://filestore.scouting.org/filestore/merit_badge_reqandres/chemistry.pdf)**MB240 Citizenship in Society**

The focus of the Citizenship in Society merit badge is to provide you with information on diversity, equity, inclusion, and ethical leadership. You'll learn why these qualities are important in society and in Scouting, as well as how to help other people at all times and serve as a leader and an upstander.

9-3:30 PM

**Maximum number of participants:** 13[http://filestore.scouting.org/filestore/merit\\_badge\\_reqandres/CitizenshipSociety\\_ScoutReqs.pdf](http://filestore.scouting.org/filestore/merit_badge_reqandres/CitizenshipSociety_ScoutReqs.pdf)**MB236 Digital Technology**

Technology has come a long way since Computers merit badge was first introduced in 1967. This badge will teach Scouts about technology in the digital age.

9-3:30 PM

**Maximum number of participants:** 14[https://filestore.scouting.org/filestore/Merit\\_Badge\\_ReqandRes/Digital\\_Technology.pdf](https://filestore.scouting.org/filestore/Merit_Badge_ReqandRes/Digital_Technology.pdf)**NOTE:** No Prerequisites**MB138 Electricity**

Electricity is a powerful and fascinating force of nature. As early as 600 b.c., observers of the physical world suspected that electricity existed but did not have a name for it. In fact, real progress in unraveling the mystery of electricity has come only within the last 250 years.

9-3:30 PM

**Maximum number of participants:** 14[https://filestore.scouting.org/filestore/Merit\\_Badge\\_ReqandRes/Electricity.pdf](https://filestore.scouting.org/filestore/Merit_Badge_ReqandRes/Electricity.pdf)**NOTE:** Prerequisites:

2. Use Home Inspection Worksheet emailed to scouts or find on usscouts.org under electricity merit badge requirements. Link to sheet is below requirements.

Workbook: <http://usscouts.org/mb/worksheets/Electricity.pdf>

**MB139 Electronics**

Electronics is the science that controls the behavior of electrons so that some type of useful function is performed. Today, electronics is a fast-changing and exciting field.

9-3:30 PM

**Maximum number of participants:** 14[https://filestore.scouting.org/filestore/Merit\\_Badge\\_ReqandRes/Electronics.pdf](https://filestore.scouting.org/filestore/Merit_Badge_ReqandRes/Electronics.pdf)**NOTE:** Prerequisites:

6. Find out about three career opportunities in electronics that interest you. Discuss with and explain to your counselor what training and education are needed for each position.

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**MB178 Nuclear Science**

Nuclear science gives us a simple explanation of the natural world. The ultimate goal of nuclear science is to find out if there is one fundamental rule that explains how matter and forces interact. Earning the Nuclear Science merit badge is a chance for Scouts to learn about this exciting field at the cutting edge of science today.

9-3:30 PM

**Maximum number of participants:** 10[https://filestore.scouting.org/filestore/merit\\_badge\\_reqandres/nuclear\\_science.pdf](https://filestore.scouting.org/filestore/merit_badge_reqandres/nuclear_science.pdf)**NOTE:** No Prerequisites**MB187 Plumbing**

Plumbing, including pipe fitting, is an important and well-paid occupation. The industry is quite broad. It covers installations and repairs in homes, commercial properties, and factories. Plumbing pipelines are used for water supply, waste drainage, natural-gas heating, and many other purposes.

9-3:30 PM

**Maximum number of participants:** 10[https://filestore.scouting.org/filestore/Merit\\_Badge\\_ReqandRes/Plumbing.pdf](https://filestore.scouting.org/filestore/Merit_Badge_ReqandRes/Plumbing.pdf)**NOTE:** No Prerequisites**MB192 Radio**

Radio is a way to send information, or communications, from one place to another. Broadcasting includes both one-way radio (a person hears the information but can't reply) as well as two-way radio (where the same person can both receive and send messages).

9-3:30 PM

**Maximum number of participants:** 14[https://filestore.scouting.org/filestore/Merit\\_Badge\\_ReqandRes/Radio.pdf](https://filestore.scouting.org/filestore/Merit_Badge_ReqandRes/Radio.pdf)**NOTE:** No Prerequisites**MB229 Robotics**

Earning the Robotics merit badge requires a Scout to understand how robots move (actuators), sense the environment (sensors), and understand what to do (programming); he should demonstrate robot design in building a robot. You should help ensure that the Scout has sufficiently explored the field of robotics to understand what it is about, and to discover whether this may be a field of interest for him as a career.

9-3:30 PM

**Maximum number of participants:** 28[https://filestore.scouting.org/filestore/merit\\_badge\\_reqandres/robotics.pdf](https://filestore.scouting.org/filestore/merit_badge_reqandres/robotics.pdf)**NOTE:** No Prerequisites